Inflation pressure recommendations & load capacities for trucks and buses

TRUCKS, TRACTORS AND BUSES

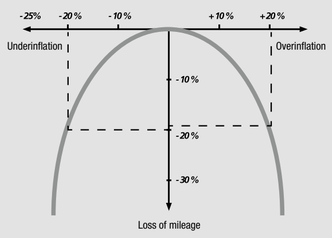
Rim	Size	Load index	Nominal pressure [bar]	Max. single axle load [kg]	Max. dual axle load [kg]	Rim width [inch]	Load index	Fitment S = single D = dual	Maximum load capacity per axle [kg] at various inflation pressures — Inflation pressure [bar] 5,00	5,50	6,00	6,25	6,50	6,75	7,00	7,25	7,50	7,75	8,00	8,25	8,50	8,75	9,00
17.5"	**8.5 R 17.5**	121/120	6.25	2900	5600	5.25/**6.00**/6.75	**121**	S	2430	2620	2810	**2900**											
							120	D	4690	5060	5420	**5600**											
	9.5 R 17.5	129/127	7.50	3700	7000	6.00-**6.75**	**129**	S	2680	2890	3100	3200	3300	3410	3500	3600	**3700**						
							127	D	5060	5460	5860	6050	6240	6440	6620	6810	**7000**						
	10 R 17.5	134/132	8.00	4240	8000	6.75-**7.50**	**134**	S	2920	3150	3370	3490	3600	3710	3820	3920	4030	4140	**4240**				
							132	D	5500	5930	6360	6570	6780	6990	7190	7400	7600	7800	**8000**				
	205/75 R 17.5	124/122	7.50	3200	6000	5.25/**6.00**/6.75	**124**	S	2310	2500	2680	2770	2850	2950	3030	3110	**3200**						
							122	D	4340	4680	5020	5190	5350	5520	5680	5840	**6000**						
	215/75 R 17.5	126/124	7.00	3400	6400	**6.00**-6.75	**126**	S	2600	2800	3000	3110	3200	3300	**3400**								
							124	D	4890	5280	5650	5850	6030	6220	**6400**								
		128/126	7.50	3600	6800	**6.00**-6.75	**128**	S	2600	2810	3010	3110	3210	3310	3410	3500	**3600**						
							126	D	4920	5310	5690	5880	6060	6250	6430	6620	**6800**						
	225/75 R 17.5	129/127	7.25	3700	7000	6.00-**6.75**	**129**	S	2750	2970	3180	3290	3390	3500	3600	**3700**							
							127	D	5200	5610	6020	6220	6410	6620	6810	**7000**							
	235/75 R 17.5	132/130	7.75	4000	7600	**6.75**-7.50	**132**	S	2820	3040	3260	3370	3470	3590	3690	3790	3900	**4000**					
							130	D	5350	5780	6190	6400	6600	6810	7010	7210	7400	**7600**					
	245/70 R 17.5	136/134	8.50	4480	8480	6.75-**7.50**	**136**	S	2930	3160	3390	3510	3610	3730	3840	3940	4050	4160	4270	4370	**4480**		
							134	D	5550	5990	6420	6640	6840	7060	7260	7470	7670	7880	8080	8280	**8480**		
	265/70 R 17.5	139/136	8.00	4860	8960	6.75/**7.50**	**139**	S	3340	3600	3860	3990	4120	4250	4370	4490	4620	4740	**4860**				
							136	D	6150	6640	7120	7360	7590	7830	8050	8280	8510	8740	**8960**				
19.5"	**245/70 R 19.5**	136/134	8.25	4480	8480	6.75-**7.50**	**136**	S	3000	3240	3470	3590	3700	3820	3930	4040	4150	4260	4370	**4480**			
							134	D	5680	6130	6570	6800	7010	7230	7440	7650	7860	8070	8270	**8480**			
	265/70 R 19.5	140/138	7.75	5000	9440	6.75/**7.50**/8.25	**140**	S	3520	3800	4070	4210	4340	4480	4610	4740	4870	**5000**					
							138	D	6650	7170	7690	7950	8200	8460	8700	8950	9200	**9440**					
		143/141	8.50	5450	10300	6.75/**7.50**/8.25	**143**	S	3560	3850	4120	4270	4400	4540	4670	4800	4930	5060	5190	5320	**5450**		
							141	D	6740	7270	7800	8060	8310	8570	8820	9070	9320	9570	9810	10060	**10300**		
	285/70 R 19.5	146/144	9.00	6000	11200	7.50/**8.25**/9.00	**146**	S	3750	4050	4340	4490	4620	4770	4910	5050	5190	5320	5460	5600	5730	5870	**6000**
							144	D	7000	7550	8100	8370	8630	8900	9160	9420	9680	9940	10190	10450	10700	10950	**11200**
	305/70 R 19.5	148/145	8.50	6300	11600	8.25-**9.00**	**148**	S	4120	4450	4770	4930	5080	5240	5390	5550	5700	5850	6000	6150	**6300**		
							145	D	7590	8190	8780	9080	9360	9650	9930	10210	10490	10770	11050	11330	**11600**		
20"	**12.00 R 20**	154/150	8.50	7500	13400	7.50/**8.50**/9.00	**154**	S	4910	5290	5680	5870	6050	6240	6420	6600	6790	6970	7140	7320	**7500**		
							150	D	8760	9460	10140	10480	10810	11150	11470	11800	12120	12450	12770	13080	**13400**		
	14.00 R 20	164/160	7.50	10000	18000	9.00-**10.00**	**164**	S	7230	7800	8370	8650	8920	9200	9460	9730	**10000**						
							160	D	13010	14040	15060	15560	16050	16550	17030	17520	**18000**						
	365/85 R 20	164	8.00	10000		**10.00**	**164**	S	6870	7410	7940	8210	8470	8730	8990	9240	9500	9750	**10000**				
22.5"	**10 R 22.5**	144/142	8.50	5600	10600	6.75-**7.50**	**144**	S	3670	3960	4240	4380	4520	4660	4800	4940	5070	5120	5340	5470	**5600**		
							142	D	6940	7490	8030	8290	8560	8820	9080	9340	9600	9850	10100	10350	**10600**		
	11 R 22.5	148/145	8.50	6300	11600	7.50-**8.25**	**148**	S	4120	4450	4770	4930	5080	5240	5390	5550	5700	5850	6000	6150	**6300**		
							145	D	7590	8190	8780	9080	9360	9650	9930	10210	10490	10770	11050	11330	**11600**		
	12 R 22.5	152/148	8.50	7100	12600	8.25-**9.00**	**152**	S	4640	5010	5370	5560	5730	5910	6080	6250	6420	6590	6760	6930	**7100**		
							148	D	8240	8890	9540	9860	10170	10480	10790	11090	11400	11700	12000	12300	**12600**		
	13 R 22.5	156/150	8.75	8000	13400	9.00-**9.75**	**156**	S	5110	5520	5920	6120	6310	6510	6690	6880	7070	7260	7450	7630	7820	**8000**	
							150	D	8560	9240	9910	10240	10560	10890	11210	11530	11850	12160	12470	12780	13090	**13400**	
	375/90 R 22.5	164	7.50	10000		10.50-**11.75**	**164**	S	7230	7800	8370	8650	8920	9200	9460	9730	**10000**						
	295/80 R 22.5	152/148	8.50	7100	12600	8.25-**9.00**	**152**	S	4640	5010	5370	5560	5730	5910	6080	6250	6420	6590	6760	6930	**7100**		
							148	D	8240	8890	9540	9860	10170	10480	10790	11090	11400	11700	12000	12300	**12600**		
		154/149	8.50	7500	13000	**8.25**-9.00	**154**	S	4910	5290	5680	5870	6050	6240	6420	6600	6790	6970	7140	7320	**7500**		
							149	D	8500	9180	9840	10170	10490	10820	11130	11450	11760	12070	12380	12690	**13000**		
	315/80 R 22.5	156/150	8.50	8000	13400	**9.00**-9.75	**156**	S	5230	5650	6050	6260	6450	6660	6850	7040	7240	7430	7620	7810	**8000**		
							150	D	8760	9460	10140	10480	10810	11150	11470	11800	12120	12450	12770	13080	**13400**		
		158/150	9.00	8500	13400	**9.00**-9.75	**158**	S	5310	5730	6150	6350	6550	6750	6950	7150	7350	7540	7740	7930	8120	8310	**8500**
							150	D	8370	9040	9690	10010	10330	10650	10960	11270	11580	11890	12200	12500	12800	13100	**13400**
	445/75 R 22.5	170	8.00	12000		**13.00**-14.00	**170**	S	8240	8890	9530	9850	10160	10480	10780	11090	11400	11700	12000				
	275/70 R 22.5	148/145	9.00	6300	11600	7.50-**8.25**	**148**	S	3940	4250	4550	4710	4860	5010	5150	5300	5440	5590	5730	5880	6020	6160	**6300**
							145	D	7250	7820	8390	8670	8940	9220	9490	9760	10030	10290	10560	10820	11080	11340	**11600**
		150/145	9.00	6700	11600	**7.50**-8.25	**150**	S	4190	4520	4840	5000	5160	5320	5480	5640	5790	5940	6100	6250	6400	6550	**6700**
							145	D	7250	7820	8390	8670	8940	9220	9490	9760	10030	10290	10560	10820	11080	11340	**11600**
	305/70 R 22.5	152/148	9.00	7100	12600	8.25-**9.00**	**152**	S	4440	4790	5130	5310	5470	5650	5810	5970	6140	6300	6460	6620	6780	6940	**7100**
							148	D	7870	8500	9110	9420	9710	10010	10310	10600	10890	11180	11470	11750	12040	12320	**12600**
		153/150	9.00	7300	13400	**8.25**-9.00	**153**	S	4560	4920	5280	5460	5630	5800	5970	6140	6310	6480	6640	6810	6970	7140	**7300**
							150	D	8370	9040	9690	10010	10330	10650	10960	11270	11580	11890	12200	12500	12800	13100	**13400**
	315/70 R 22.5	154/150	9.00	7500	13400	**9.00**-9.75	**154**	S	4690	5060	5420	5610	5780	5960	6130	6310	6480	6650	6830	7000	7160	7330	**7500**
							150	D	8370	9040	9690	10010	10330	10650	10960	11270	11580	11890	12200	12500	12800	13100	**13400**
		156/150	9.00	8000	13400	**9.00**-9.75	**156**	S	5000	5390	5780	5980	6170	6360	6540	6730	6910	7100	7280	7460	7640	7820	**8000**
							150	D	8370	9040	9690	10010	10330	10650	10960	11270	11580	11890	12200	12500	12800	13100	**13400**
	385/65 R 22.5	160	9.00	9000		**11.75**-12.25	**160**	S	5620	6070	6510	6730	6940	7150	7360	7570	7780	7990	8190	8390	8600	8800	**9000**
		164	9.00	10000		**11.75**-12.25	**164**	S	6250	6740	7230	7470	7710	7950	8180	8410	8640	8870	9100	9330	9550	9780	**10000**
	295/60 R 22.5	150/147	9.00	6700	12300	**9.00**-9.75	**150**	S	4190	4520	4840	5010	5160	5330	5480	5640	5790	5940	6100	6250	6400	6550	**6700**
							147	D	7690	8290	8890	9190	9480	9780	10060	10350	10630	10910	11190	11470	11750	12030	**12300**
	315/60 R 22.5	152/148	9.00	7100	12600	9.00-**9.75**	**152**	S	4440	4790	5130	5310	5470	5650	5810	5970	6140	6300	6460	6620	6780	6940	**7100**
							148	D	7870	8500	9110	9420	9710	10010	10310	10600	10890	11180	11470	11750	12040	12320	**12600**
		154/148	9.00	7500	12600	**9.00**-9.75	**154**	S	4690	5060	5420	5610	5780	5960	6130	6310	6480	6650	6830	7000	7160	7330	**7500**
							148	D	7870	8500	9110	9420	9710	10010	10310	10600	10890	11180	11470	11750	12040	12320	**12600**
	295/55 R 22.5	147/145	9.00	6150	11600	**9.00**-9.75	**147**	S	3840	4150	4450	4600	4740	4890	5030	5170	5320	5460	5600	5740	5880	6010	**6150**
							145	D	7250	7820	8390	8670	8940	9220	9490	9760	10030	10290	10560	10820	11080	11340	**11600**
	385/55 R 22.5	160	9.00	9000		11.75-**12.25**	**160**	S	5620	6070	6510	6730	6940	7150	7360	7570	7780	7990	8190	8390	8600	8800	**9000**
	355/50 R 22.5	154	9.00	7500		**11.75**	**154**	S	4690	5060	5420	5610	5780	5960	6130	6310	6480	6650	6830	7000	7160	7330	**7500**
		156	9.00	8000		**11.75**	**156**	S	5000	5390	5780	5980	6170	6360	6540	6730	6910	7100	7280	7460	7640	7820	**8000**
	375/50 R 22.5	156	9.00	8000		**11.75**-12.25	**156**	S	5000	5390	5780	5980	6170	6360	6540	6730	6910	7100	7280	7460	7640	7820	**8000**
	315/45 R 22.5	147/145	9.00	6150	11600	**9.75**	**147**	S	3840	4150	4450	4590	4740	4885	5030	5175	5315	5460	5600	5735	5875	6010	**6150**
							145	D	7250	7820	8390	8660	8940	9230	9490	9760	10030	10290	10560	10820	11080	11340	**11600**
	375/45 R 22.5	156	9.00	8000		11.75-**12.25**	**156**	S	50200	5400	5780	5980	6170	6360	6540	6730	6910	7100	7280	7460	7640	7820	**8000**
	455/45 R 22.5	166	9.00	10600		14.00-**15.00**	**166**	S	6620	7150	7660	7920	8170	8430	8670	8920	9160	9400	9650	9890	10130	10360	**10600**
	495/45 R 22.5	169	9.00	11600		16.00-**17.00**	**169**	S	7250	7820	8390	8670	8940	9220	9490	9760	10030	10290	10560	10820	11080	11340	**11600**
24"	**12.00 R 24**	160/156	8.50	9000	16000	**8.50**-9.00	**160**	S	5890	6350	6810	7040	7260	7490	7710	7920	8140	8360	8570	8790	**9000**		
							156	D	10470	11290	12110	12510	12910	13310	13700	14090	14480	14860	15240	15620	**16000**		
	325/95 R 24	162/160	8.50	9500	18000	8.50/**9.00**/10.00	**162**	S	6210	6710	7190	7430	7670	7910	8130	8360	8590	8820	9050	9280	**9500**		
							160	D	11770	12710	13620	14070	14520	14970	15410	15850	16280	16720	17150	17580	**18000**		

NOTES

- Recommended rim width in bold
- Maximum load capacities and inflation pressures are based on ETRTO standards
- Load capacity per tyre differs depending on single or dual fitment
- Maximum load capacity in bold

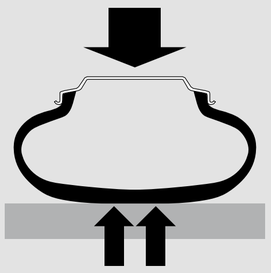
TRAILERS AND SEMITRAILERS

Rim	Size	Load index	Nominal pressure [bar]	Max. single axle load [kg]	Max. dual axle load [kg]	Rim width [inch]	Load index	Fitment S = single D = dual	Maximum load capacity per axle [kg] at various inflation pressures — Inflation pressure [bar] 5,00	5,50	6,00	6,25	6,50	6,75	7,00	7,25	7,50	7,75	8,00	8,25	8,50	8,75	9,00
15"	**7.50 R 15**	135/133	8,50	4360	8240	**6.00**-6.50	**135**	S	2860	3080	3300	**3410**	3520	3630	3740	3840	3950	3950	4160	4260	**4360**		
							133	D	5390	5820	6240	**6450**	6650	6860	7060	7260	7460	7660	7850	8050	**8240**		
	8.25 R 15	143/141	8,75	5450	10300	6.00 / **6.50** / 7.00	**143**	S	3480	3760	4030	**4160**	4300	4430	4560	4690	4810	4950	5070	5200	5330	**5450**	
							141	D	6580	7100	7620	**7870**	8120	8370	8620	8860	9100	9350	9590	9830	10060	**10300**	
17.5"	**9.5 R 17.5**	143/141	8,75	5450	10300	6.00-**6.75**	**143**	S	3480	3760	4030	**4170**	4300	4430	4560	4690	4820	4950	5070	5200	5330	**5450**	
							141	D	6580	7100	7620	**7870**	8120	8370	8620	8860	9110	9350	9590	9830	10060	**10300**	
	215/75 R 17.5	135/133	8,50	4360	8240	**6.00**-6.75	**135**	S	2850	3080	3300	**3410**	3520	3630	3730	3840	3940	4050	4150	4260	**4360**		
							133	D	5390	5820	6240	**6450**	6650	6860	7050	7260	7450	7650	7850	8050	**8240**		
	235/75 R 17.5	143/141	8,75	5450	10300	**6.75**-7.50	**143**	S	3480	3760	4030	**4170**	4300	4430	4560	4690	4820	4950	5070	5200	5330	**5450**	
							141	D	6580	7110	7620	**7870**	8120	8370	8620	8870	9100	9350	9590	9830	10060	**10300**	
	245/70 R 17.5	143/141	8,75	5450	10300	6.75-**7.50**	**143**	S	3480	3760	4030	**4170**	4300	4430	4560	4690	4820	4950	5070	5200	5330	**5450**	
							141	D	6580	7110	7620	**7870**	8130	8370	8620	8860	9100	9350	9590	9830	10060	**10300**	
	205/65 R 17.5	129/127	9,00	3700	7000	**6.00**-6.75	**129**	S	2310	2500	2680	**2770**	2850	2940	3030	3110	3200	3280	3370	3450	3530	3620	**3700**
							127	D	4370	4720	5060	**5230**	5400	5570	5730	5890	6050	6210	6370	6530	6690	6840	**7000**
19.5"	**245/70 R 19.5**	141/140	8,50	5150	10000	6.75-**7.50**	**141**	S	3370	3640	3900	**4030**	4160	4290	4410	4530	4660	4780	4910	5030	**5150**		
							140	D	6540	7060	7570	**7820**	8070	8320	8560	8810	9050	9290	9530	9760	**10000**		
	265/70 R 19.5	143/141	8,50	5450	10300	**7.50**-8.25	**143**	S	3560	3850	4120	**4270**	4400	4540	4670	4800	4930	5060	5190	5320	**5450**		
							141	D	6740	7270	7800	**8060**	8310	8570	8820	9070	9320	9570	9810	10060	**10300**		
	285/70 R 19.5	150/148	9,00	6700	12600	**8.25**-9.00	**150**	S	4190	4520	4840	**5010**	5160	5330	5480	5640	5790	5940	6100	6250	6400	6560	**6700**
							148	D	7870	8500	9110	**9420**	9710	10010	10310	10600	10890	11180	11470	11750	12040	12320	**12600**
	265/55 R 19.5	141/140	9,00	5150	10000	**8.25**	**141**	S	3220	3470	3720	**3850**	3970	4100	4210	4330	4450	4570	4690	4800	4920	5040	**5150**
							140	D	6250	6740	7230	**7470**	7710	7950	8180	8410	8640	8870	9100	9330	9550	9780	**10000**
	435/50 R 19.5	160	9,00	9000		**14.00**-15.00	**160**	S	5620	6070	6510	**6730**	6940	7150	7360	7570	7780	7990	8190	8390	8600	8800	**9000**
		164	9,00	10000		**14.00**-15.00	**164**	S	6250	6740	7230	**7470**	7710	7940	8180	8410	8640	8870	9100	9330	9550	9780	**10000**
22.5"	**11 R 22.5**	148/145	8,50	6300	11600	7.50-**8.25**	**148**	S	4120	4450	4770	**4930**	5080	5240	5390	5550	5700	5850	6000	6150	**6300**		
							145	D	7590	8190	8780	**9080**	9360	9650	9930	10210	10490	10770	11050	11330	**11600**		
	275/70 R 22.5	152/148	9,00	7100	12600	**7.50**-8.25	**152**	S	4440	4790	5130	**5310**	5470	5650	5810	5970	6140	6300	6460	6620	6780	6940	**7100**
							148	D	7870	8500	9110	**9420**	9710	10010	10310	10600	10890	11180	11470	11750	12040	12320	**12600**
	385/65 R 22.5	160	9,00	9000		**11.75**-12.25	**160**	S	5620	6070	6510	**6730**	6940	7150	7360	7570	7780	7990	8190	8390	8600	8800	**9000**
		164	9,00	10000		**11.75**-12.25	**164**	S	6250	6740	7230	**7470**	7710	7940	8180	8410	8640	8870	9100	9330	9550	9780	**10000**
	425/65 R 22.5	165	8,25	10300		**13.00**-14.00	**165**	S	6900	7450	7980	**8250**	8510	8780	9030	9290	9540	9800	10050	**10300**			
	445/65 R 22.5	169	9,00	11600		**13.00**-14.00	**169**	S	7250	7820	8390	**8670**	8940	9220	9490	9760	10030	10290	10560	10820	11080	11340	**11600**
	385/55 R 22.5	160	9,00	9000		11.75-**12.25**	**160**	S	5620	6070	6510	**6730**	6940	7150	7360	7570	7780	7990	8190	8390	8600	8800	**9000**
	435/50 R 22.5	164	9,00	10000		**14.00**-15.00	**164**	S	6250	6750	7230	**7470**	7710	7950	8180	8420	8650	8880	9110	9330	9560	9780	**10000**
	455/40 R 22.5	160	9,00	9000		**15.00**-16.00	**160**	S	5630	6070	6510	**6730**	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	**9000**



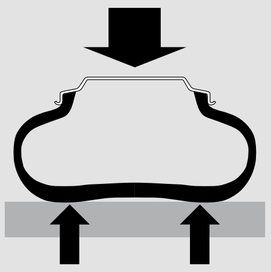
Recommandations

- Tyres should be inflated to the pressures indicated in the tables in relation to the actual axle loads
- Tyre inflation pressure to be checked at least on a bi-weekly basis
- Pressure checks to be done on “cold” tyres
- An increase in inflation pressure during service is normal and shall not be adjusted



Overinflation – consequences

- Unbalanced wear
- Reduced penetration and impact fracture resistances
- Tendency to heel and toe wear (especially on lug type tyres)
- Reduced driver comfort
- Increased vehicle damage (wear of suspension components, cracked welds, broken springs, etc.)
- Higher risk of payload damage
- Poor vehicle handling – especially on the read axle



Underinflation – consequences

- Unbalanced wear
- Higher fuel consumption
- Risk of compound reversion (due to heat generation) and subsequent separation
- Bead area (ply and/or chipper ending) separations
- Heavy rim chafing
- Poor vehicle handling – unstable straight ahead, slow steering reactions, increased lateral sway

PRESSURE CONVERSION

kpa	bar	lbsin² (p.s.i.)	kg/cm²
100	1.0	15	1.0
150	1.5	22	1.5
200	2.0	29	2.0
250	2.5	36	2.6
300	3.0	44	3.1
350	3.5	51	3.6
400	4.0	58	4.1
450	4.5	65	4.6
500	5.0	73	5.1
550	5.5	80	5.6
600	6.0	87	6.1
650	6.5	94	6.6
700	7.0	102	7.1
750	7.5	109	7.7
800	8.0	116	8.2
850	8.5	123	8.7
900	9.0	131	9.2
950	9.5	138	9.7
1000	10.5	145	10.2
1050	10.5	152	10.7

SPEED INDEX (SI)

SI	km/h	SI	km/h
A1	5	K	110
A2	10	L	120
A3	15	M	130
A4	20	N	140
A5	25	P	150
A6	30	Q	160
A7	35	R	170
A8	40	S	180
B	50	T	190
C	60	U	200
D	65	H	210
E	70	V	240
F	80	W	<270
G	90	Z	>240
J	100	Y	≤300

LOAD INDEX (LI)

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
60	250	80	450	100	800	120	1400	140	2500	160	4500
61	257	81	462	101	825	121	1450	141	2575	161	4625
62	265	82	475	102	850	122	1500	142	2650	162	4750
63	272	83	487	103	875	123	1550	143	2725	163	4875
64	280	84	500	104	900	124	1600	144	2800	164	5000
65	290	85	515	105	925	125	1650	145	2900	165	5150
66	300	86	530	106	950	126	1700	146	3000	166	5300
67	307	87	545	107	975	127	1750	147	3075	167	5450
68	315	88	560	108	1000	128	1800	148	3150	168	5600
69	325	89	580	109	1030	129	1850	149	3250	169	5800
70	335	90	600	110	1060	130	1900	150	3350	170	6000
71	345	91	615	111	1090	131	1950	151	3450		
72	355	92	630	112	1120	132	2000	152	3550		
73	365	93	650	113	1150	133	2060	153	3650		
74	375	94	670	114	1180	134	2120	154	3750		
75	387	95	690	115	1215	135	2180	155	3875		
76	400	96	710	116	1250	136	2240	156	4000		
77	412	97	730	117	1285	137	2300	157	4125		
78	425	98	750	118	1320	138	2360	158	4250		
79	437	99	775	119	1360	139	2430	159	4375		

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