BMW Group

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Technical Data - Europe.
BMW Z4 Roadster (E85).

Only for internal use

		Z4 2.0i Roadster	Z4 2.5i Roadster	Z4 2.5i Roadster	Z4 2.5si Roadster	Z4 2.5si Roadster	Z4 3.0si Roadster	Z4 3.0si Roadster	Z4 M Roadster Roadster
Engine platform		**N46B20O1**	**N52B25U0**	**N52B25U0**	**N52B25O0**	**N52B25O0**	**N52B30O0**	**N52B30O0**	**S54 B32**
Transmission		**M6**	**M6**	**A6**	**M6**	**A6**	**M6**	**A6**	**M6**
No of doors / seats	-	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
Vehicle lenght / width / height -unloaded-	mm	4091 / 1781 / 1299	4091 / 1781 / 1299	4091 / 1781 / 1299	4091 / 1781 / 1299	4091 / 1781 / 1299	4091 / 1781 / 1299	4091 / 1781 / 1299	4113 / 1781 / 1302
Weelbase / Turning cicle	mm / m	2495 / 9,8	2495 / 9,8	2495 / 9,8	2495 / 9,8	2495 / 9,8	2495 / 9,8	2495 / 9,8	2497 / 10,5
Track front / rear	mm	1473 / 1523	1473 / 1523	1473 / 1523	1473 / 1523	1473 / 1523	1473 / 1523	1473 / 1523	1486 / 1516
Overhang rear	mm	772	772	772	772	772	772	772	770
Ground clearance -empty-	mm	123	123	123	123	123	123	123	-
Shoulder width front / rear	mm	1334 / -	1334 / -	1334 / -	1334 / -	1334 / -	1334 / -	1334 / -	1334 / -
Ellbow width front / rear	mm	1396 / -	1396 / -	1396 / -	1396 / -	1396 / -	1396 / -	1396 / -	1396 / -
Eff. head room front / rear	mm	948 / -	948 / -	948 / -	948 / -	948 / -	948 / -	948 / -	948 / -
Luggage capacity	m³	0,240-0,260	0,240-0,260	0,240-0,260	0,240-0,260	0,240-0,260	0,240-0,260	0,240-0,260	0,200-0,220
Fuel tank capacity	ltr	55	55	55	55	55	55	55	55
Curb weight -acc DIN-	kg	1220 / 1295	1270 / 1345	1300 / 1375	1285 / 1360	1320 / 1395	1310 / 1385	1340 / 1415	1410 / 1485
Axle load ratio -unloaded DIN-	%	50,2	48,9	48,4	49,3	48,8	49,0	48,4	48,7
Gross vehicle weight / Payload	kg	1520 / 300	1570 / 300	1600 / 300	1585 / 300	1620 / 300	1610 / 300	1640 / 300	1705 / 295
Axle load limit front / rear	kg	750 / 840	780 / 840	780 / 840	780 / 850	780 / 850	790 / 860	790 / 860	840 / 910
Trailer load braked -12% / 8%-	kg	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Trailer load unbraked / roof load	kg	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Engine type / cylinder / valves p cyl	-	In line / 4 / 4	In line / 6 / 4	In line / 6 / 4	In line / 6 / 4	In line / 6 / 4	In line / 6 / 4	In line / 6 / 4	In line / 6 / 4
Fuel management	-	MEV9	MSV70	MSV70	MSV70	MSV70	MSV70	MSV70	MSS70
Effective displacement	cm³	1995	2497	2497	2497	2497	2996	2996	3246
Stroke / Bore	mm	90 / 84	78,8 / 82	78,8 / 82	78,8 / 82	78,8 / 82	88 / 85	88 / 85	81 / 87
Nom power output / Engine speed	kW(hp)/ 1/min	110 (150) / 6200	130 (177) / 5800	130 (177) / 5800	160 (218) / 6500	160 (218) / 6500	195 (265) / 6600	195 (265) / 6600	252 (343) / 7900
Max torque / Engine speed	Nm / 1/min	200 / 3600	230 / 3500	230 / 3500	250 / 2750	250 / 2750	315 / 2750	315 / 2750	365 / 4900
RPM at max torque -range-	1/min	see 'Tor./Engine speed'	3500-5000	3500-5000	2750-4250	2750-4250	see 'Tor./Engine speed'	see 'Tor./Engine speed'	see 'Tor./Engine speed'
Compression ratio / Fuel type	-	10,5 / ROZ91-98	11 / ROZ91-98	11 / ROZ91-98	11 / ROZ91-98	11 / ROZ91-98	10,7 / ROZ91-98	10,7 / ROZ91-98	11,5 / ROZ95-98
Exhaust emissions classification	-	EU4	EU4	EU4	EU4	EU4	EU4	EU4	EU4
Codification of reference gearbox	-	GETRAG I	GETRAG I	ZF 6HP19	GETRAG I	ZF 6HP19	GETRAG H	ZF 6HP19	ZF H
Gear ratio 1st/2nd/3rd	-	4,323 / 2,456 / 1,659	4,323 / 2,456 / 1,659	4,171 / 2,34 / 1,521	4,323 / 2,456 / 1,659	4,171 / 2,34 / 1,521	4,35 / 2,496 / 1,665	4,171 / 2,34 / 1,521	4,35 / 2,496 / 1,665
Gear ratio 4th/5th/6th/7th	-	1,23 / 1 / 0,848 / -	1,23 / 1 / 0,848 / -	1,143 / 0,867 / 0,691 / -	1,23 / 1 / 0,848 / -	1,143 / 0,867 / 0,691 / -	1,23 / 1 / 0,851 / -	1,143 / 0,867 / 0,691 / -	1,23 / 1 / 0,851 / -
Reverse ratio	-	3,938	3,938	3,403	3,938	3,403	3,926	3,403	3,926
Final drive ratio	-	3,38	3,38	3,91	3,38	3,73	3,23	3,64	3,62
Steering type / ratio	-	Rack-and-pinion / 14,2	Rack-and-pinion / 14,2	Rack-and-pinion / 14,2	Rack-and-pinion / 14,2	Rack-and-pinion / 14,2	Rack-and-pinion / 14,2	Rack-and-pinion / 14,2	Rack-and-pinion / 15,4
Brake front / diameter	-/mm	Ventilated Disc / 286	Ventilated Disc / 286	Ventilated Disc / 286	Ventilated Disc / 300	Ventilated Disc / 300	Ventilated Disc / 325	Ventilated Disc / 325	Ventilated Disc / 345
Brake rear / diameter	-/mm	Disc / 280	Disc / 280	Disc / 280	Disc / 294	Disc / 294	Ventilated Disc / 294	Ventilated Disc / 294	Ventilated Disc / 328
Drag Cd / A / Cd x A	- / m² / m²	0,36 / 1,91 / 0,69	0,36 / 1,91 / 0,69	0,36 / 1,91 / 0,69	0,36 / 1,91 / 0,69	0,36 / 1,91 / 0,69	0,36 / 1,91 / 0,69	0,36 / 1,91 / 0,69	0,37 / 1,91 / 0,71
Top speed	km/h	220	229	225	240	238	250	250	250
Acceleration 0-100 Km/h	s	8,2	7,1	7,7	6,5	6,9	5,7	6,0	5,0
Acceleration 0-1000 m	s	29,3	27,6	28,2	26,5	26,9	25,2	25,3	23,7
Accel 80-120 Km/h 4/5 Gear	s	8,2 / 10,6 / -	7 / 9 / -	- / - / -	6,5 / 8,1 / -	- / - / -	5,5 / 6,7 / -	- / - / -	5 / 6,5 / -
Weight ratio	kg/kW	11,1	9,8	10,0	8,0	8,2	6,7	6,9	5,6
Output per litre	kW/ltr	55,1	52,1	52,1	64,1	64,1	65,1	65,1	77,6
Fuel consumtion -EU urban-	ltr/100km	10,8	11,8	12,0	12,0	12,8	12,6	12,8	18,2
Fuel consumption -EU extra-urban-	ltr/100km	5,6	6,1	6,3	6,3	6,8	6,3	6,8	8,6
Fuel consumption KV01 / Range	ltr/100km / km	7,5 / 735	8,2 / 670	8,4 / 650	8,4 / 650	9 / 610	8,6 / 640	9 / 610	12,1 / 455
CO2-emission -EU-	g/km	181	197	202	202	216	207	217	292
Tyre type -front-	-	225/55 R16 92V RSC	225/50 R16 92V RSC	225/50 R16 92V RSC	225/50 R16 92V RSC	225/50 R16 92V RSC	225/45 R17 91W RSC	225/45 R17 91W RSC	225/45 ZR18
Tyre type -rear-	-	225/55 R16 92V RSC	225/50 R16 92V RSC	225/50 R16 92V RSC	225/50 R16 92V RSC	225/50 R16 92V RSC	225/45 R17 91W RSC	225/45 R17 91W RSC	255/40 ZR18
Front rim	-	7 J x 16 Light alloy	7 J x 16 Light alloy	7 J x 16 Light alloy	7 J x 16 Light alloy	7 J x 16 Light alloy	8 J x 17 Light alloy	8 J x 17 Light alloy	8 J x 18 Light alloy
Rear rim	-	7 J x 16 Light alloy	7 J x 16 Light alloy	7 J x 16 Light alloy	7 J x 16 Light alloy	7 J x 16 Light alloy	8 J x 17 Light alloy	8 J x 17 Light alloy	9 J x 18 Light alloy
Wheel offset -front/rear-	mm	47 / 47	47 / 47	47 / 47	47 / 47	47 / 47	47 / 47	47 / 47	42 / 30
Radiator incl. heater / Engine oil exchange quantity	ltr	8 / 4,25	7,6 / 6,5	8,4 / 6,5	7,6 / 6,5	8,4 / 6,5	7,6 / 6,5	8,4 / 6,5	10,7 / 5,5
Transmission fluid -exchange quantity-	ltr	Permanent filling	Permanent filling	Permanent filling	Permanent filling	Permanent filling	Permanent filling	Permanent filling	Exch. quantity (1,5)
Battery capacity / installed position	Ah/-	55 / Luggage comp.	55 / Luggage comp.	55 / Luggage comp.	55 / Luggage comp.	55 / Luggage comp.	55 / Luggage comp.	55 / Luggage comp.	70 / Luggage comp.
Alternator output rating	A/W	110 / 1540	155 / 2170	155 / 2170	155 / 2170	155 / 2170	155 / 2170	155 / 2170	147 / 2058