

RANGE ROVER VELAR

TECHNICAL SPECIFICATION

APRIL 2019



ABOVE & BEYOND



ENGINES

You can select from a choice of diesel or petrol engines. These engines are designed for clean and efficient combustion and are all equipped with Stop/Start technology and smart regenerative charging.

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TECHNICAL SPECIFICATION

POWERTRAIN	DIESEL								PETROL						
	D180		D240		D275		D300		P250		P300		V8 SUPERCHARGED		
Transmission	Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		
Driveline	All Wheel Drive (AWD)		All Wheel Drive (AWD)		All Wheel Drive (AWD)		All Wheel Drive (AWD)		All Wheel Drive (AWD)		All Wheel Drive (AWD)		All Wheel Drive (AWD)		
Maximum power (HP/rpm)	180/4,000		240/4,000		275/3,500-4,250		300/4,000		250/5,500		300/5,500		550/6,000-6,500		
Maximum torque (Nm/rpm)	430/1,750-2,500		500/1,500-2,500		625/1,500-2,500		700/1,500-1,750		365/1,300-4,500		400/1,500-4,500		680/2,500-5,500		
Capacity (cc)	1,999		1,999		2,993		2,993		1,997		1,997		4,999		
No. of cylinders/Valves per cylinder	4/4		4/4		6/4		6/4		4/4		4/4		8/4		
Cylinder layout	In-line		In-line		Longitudinal V6		Longitudinal V6		In-line		In-line		Longitudinal V8		
Bore/stroke (mm)	83/92.35		83/92.35		84/90		84/90		83/92.3		83/92.3		92.5/93		
Compression ratio (:1)	15.5		15.5		16.1		16.1		10.5 +/-0.5		9.5 +/-0.5		9.5		
FUEL ECONOMY - NEDC EQUIVALENT NEDCeq*															
		Class A	Class B	Class A	Class B	Class A	Class B	Class B	Class C	Class A	Class B	Class A	Class B	Class B	
CO ₂ Emissions	Combined	(g/km)	152	157	165	169	169	173	169	173	173	177	182	185	270
FUEL ECONOMY - WLTP**															
			TEL - TEH†		TEL - TEH†		TEL - TEH†		TEL - TEH†		TEL - TEH†		TEL - TEH†		TEH†
Consumption	Low	mpg (l/100km)	32.5 - 30.5 (8.7 - 9.2)		29.9 - 28.2 (9.4 - 10.0)		29.8 - 26.8 (9.5 - 10.5)		29.8 - 26.8 (9.5 - 10.5)		23.2 - 21.4 (12.2 - 13.2)		21.9 - 20.7 (12.9 - 13.7)		15.4 (18.4)
	Medium	mpg (l/100km)	43.2 - 38.8 (6.5 - 7.3)		41.8 - 36.7 (6.8 - 7.7)		40.0 - 36.1 (7.1 - 7.8)		40.0 - 36.1 (7.1 - 7.8)		31.6 - 28.9 (8.9 - 9.8)		30.1 - 27.5 (9.4 - 10.3)		23.3 (12.1)
	High	mpg (l/100km)	49.3 - 43.7 (5.7 - 6.5)		47.8 - 42.2 (5.9 - 6.7)		45.2 - 40.7 (6.2 - 6.9)		45.2 - 40.7 (6.2 - 6.9)		36.3 - 32.2 (7.8 - 8.8)		35.0 - 31.7 (8.1 - 8.9)		27.0 (10.5)
	Extra High	mpg (l/100km)	40.7 - 36.2 (6.9 - 7.8)		41.4 - 36.0 (6.8 - 7.8)		35.4 - 33.4 (8.0 - 8.5)		35.4 - 33.4 (8.0 - 8.5)		30.2 - 26.9 (9.4 - 10.5)		29.7 - 26.0 (9.5 - 10.9)		24.2 (11.7)
	Combined	mpg (l/100km)	42.0 - 37.8 (6.7 - 7.5)		41.1 - 36.5 (6.9 - 7.7)		38.0 - 34.7 (7.4 - 8.1)		38.0 - 34.7 (7.4 - 8.1)		30.8 - 27.7 (9.2 - 10.2)		29.8 - 26.9 (9.5 - 10.5)		23.0 (12.3)
WLTP CO ₂ Emissions	Combined	(g/km)	177 - 196		181 - 203		195 - 214		195 - 214		208 - 231		215 - 238		279
FUEL ECONOMY															
Fuel tank capacity - useable litres			60		60		66		66		82		82		82
Selective Catalytic Reduction Filter/ Gasoline Particulate Filter (SCR/GPF)			■		■		■		■		■		■		■

■ Standard.

Class A (18" - 20" wheel) Class B (21" and 22" wheels with All Season and Summer Tyres).

*The figures provided are NEDCeq calculated from official manufacturer's WLTP tests in accordance with EU legislation. For comparison purposes only. Real world figures may differ. CO₂ and fuel economy figures may vary according to wheel fitment and optional extras fitted. NEDCeq are figures calculated using a Government formula from WLTP figures equivalent to what they would have been under the old NEDC test. The correct tax treatment can then be applied.

**The figures provided are WLTP. WLTP is the new official EU test used to calculate standardised fuel consumption and CO₂ figures for passenger cars. It measures fuel, energy consumption, range and emissions. This is designed to provide figures closer to real-world driving behaviour. It tests vehicles with optional equipment and with a more demanding test procedure and driving profile.

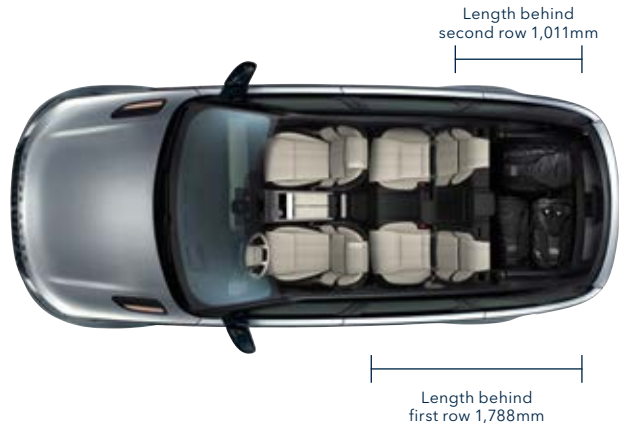
TECHNICAL SPECIFICATION

PERFORMANCE	DIESEL				PETROL		
	D180	D240	D275	D300	P250	P300	V8 SUPERCHARGED
Acceleration (secs) 0-60mph (0-100 km/h)	8.5 (8.9)	7.0 (7.4)	6.7 (7.0)	6.3 (6.7)	6.7 (7.1)	5.9 (6.2)	4.3 (4.5)
Maximum speed mph (km/h)	120 (193)	135 (217)	135 (218)	150 (241) 137 (220) with 18" wheels	135 (217)	145 (234) 137 (220) with 18" wheels	170 (274)
BRAKES							
Front type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	4-piston aluminium monobloc fixed caliper, vented 2-piece disc
Front diameter (mm)	325	325	350	350	325	350	395
Rear type	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented disc	Single piston sliding caliper, vented 2-piece disc
Rear diameter (mm)	325	325	325	325	325	325	396
Park Brake	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper	iEPB, motor on caliper
WEIGHTS (kg)^{††}							
Unladen weight (EU) [‡]	1,899	1,911	2,029	2,029	1,874	1,884	2,160
Unladen weight (DIN) ^{††}	1,824	1,836	1,954	1,954	1,799	1,809	2,085
Gross Vehicle Weight (GVW)	2,490	2,510	2,610	2,610	2,500	2,500	2,610
TOWING (kg)							
Unbraked trailer	750	750	750	750	750	750	750
Maximum towing	2,400	2,500	2,500	2,500	2,400	2,400	2,500
Maximum coupling point (nose weight)	100	100	100	100	100	100	100
Maximum vehicle and trailer combination	4,890	5,010	5,110	5,110	4,900	4,900	5,110
ROOF CARRYING (kg)							
Maximum roof load (including cross bars)	79	79	79	79	79	79	79

[†]TEL (Test Energy Low) and TEH (Test Energy High) figures are shown as a range under WLTP testing measures. TEL refers to the lowest/most economical figures (with the lightest set of options). TEH refers to the highest/least economical figures (with the heaviest set of options). WLTP legislation dictates that where there is <5g CO₂ variance between TEL and TEH, only the TEH is declared. ^{††}Weights reflect vehicles to standard specifications. Optional extras increase weight.

[‡]Includes a 75kg driver, full fluids and 90% fuel. ^{†††}Includes full fluids and 90% fuel.

DIMENSIONS AND CAPABILITIES



Standard Ride Height†
 With roof antenna 1,677mm (Air) 1,685mm (Coil)
 With panoramic roof open 1,703mm (Air) 1,711mm (Coil)
 Access height air suspension setting will reduce each of the above by 40mm

Headroom
 Maximum front/rear headroom with standard roof 993mm/988mm
 Maximum front/rear headroom with panoramic roof 970mm/966mm

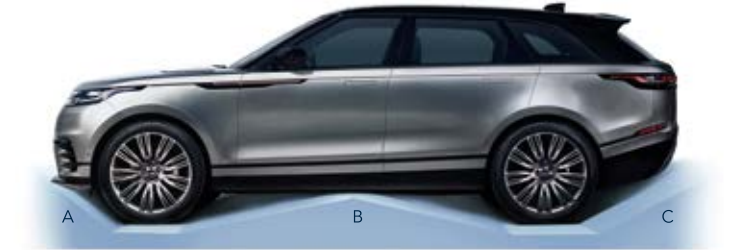
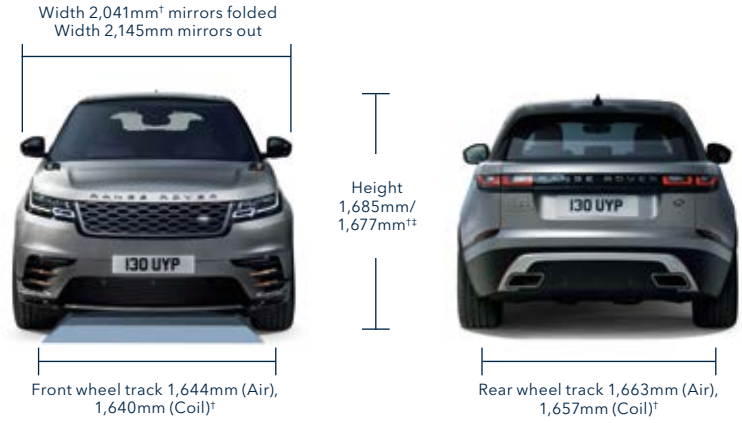
Legroom
 Maximum front legroom 1,023mm
 Maximum rear legroom 944mm†

Loadspace Capacity
 Height 687mm, Width 1,247mm
 Loadspace width between arches 1,050mm
 Maximum loadspace volume behind first row
 Dry* 1,250 litres, Wet** 1,705 litres
 Maximum loadspace volume behind second row
 Dry* 513 litres, Wet** 834 litres

Obstacle Clearance
 Off-road height 248mm††
 Standard ride height 196mm†

Turning Circle
 Kerb-to-kerb 11.6m
 Wall-to-wall 12m†
 Turns lock-to-lock 2.52

Wading Depth
 Maximum wading depth 600mm/650mm†



	A	B	C
Ride Height	Approach Angle†	Ramp Angle†	Departure Angle†
Off-road Air (Coil)	27.5° (25.1°)	24.9° (21.0°)	30.2° (26.8°)
Standard Air (Coil)	25.9° (25.3°)	21.0° (20.4°)	27.3° (27.3°)



*Dry: Volume as measured with VDA-compliant solid blocks (200mm x 50mm x 100mm). **Wet: Volume as measured by simulating the loadspace filled with liquid.
 †Figures shown may differ for 5.0L V8 Supercharged 550HP. †Electronic air suspension only.
 Vehicle shown is R-Dynamic HSE in Silicon Silver with optional features fitted.