Crash Tests

New Car Safety

MERCEDES E-CLASS (LHD)

1999 on

Front+side+head airbags

Overall Evaluation



Overall score

25.7 out of 34

Variant: E200 Sedan (LHD). Kerb weight: 1440 kg Vehicles built: 1999 Engine: V6 2 litre. Category: LUXURY Tested by EuroNCAP

Important note: The left-hand-drive European model was tested by EuroNCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page. In Australia the minimum engine size is 2.4 litre.

Safety features

The driver and front passenger are protected by front airbags, side airbags and head-protecting side airbag curtains. Side airbags are also provided for the rear seat.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pretensioners are fitted to front seat belts to reduce slack in the event of a severe crash. The centre rear seat has a 3-point seat belt.

OVERALL EVALUATION: 4 Stars

The MERCEDES E-CLASS performed reasonably well in the offset crash test (score 10.36 out of 16). The passenger compartment held its shape well except for footwell intrusion and brake pedal movement. There was a moderate risk of serious chest injury for the passenger.

The vehicle scored 13.33 out of 16 in the side impact test. There was a moderate risk of serious chest injury for the driver.

The vehicle scored a full 2 points in the optional pole test and this was sufficient to earn it 4 stars overall.

FRONTAL OFFSET CRASH TEST

The passenger compartment held it shape well in the offset crash test except that the road wheel pushed against the footwell. The brake pedal moved rearwards 230mm. The driver's doorway shortened by 20mm. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbags cushioned both the driver and passenger. Movement was well controlled. No modifiers applied to the knee impact score but EuroNCAP expressed concern about hard contact points that were just outside the assessment area.

SIDE IMPACT CRASH TEST

The passenger compartment held its shape well in the side impact test.

Despite the presence of a lower side airbag there was a moderate risk .of serious chest injury and a slight risk of a serious abdomen injury in the side impact crash test.

The curtain-style upper side airbags protected the head of the driver in the side impact test. This gave the manufacturer the option of funding a separate pole impact crash test. This test earned the vehicle a further two points.



Offset crash test at 64km/h

INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"		Offset Crash Test at 64km/h		Side Impact Crash Test at 50km/h
		Driver	Passn	Driver
Head HIC		247.2	285.7	101.7
Acceleration (g for 3ms)		39.54	43.14	43.95
Neck - Shear (kN)		0.3	0.58	-
Tension (kN)		0.99	1.38	-
Extension (Nm)		18.48	6.97	1
Chest Accln (g for 3ms)		38	40	ı
Compression (mm)		23.35	33.46	32
Viscous criterion (m/s)		0.19	0.23	0.36
Abdomen - Force (kN)		-	-	1.25
Pelvis - Force (k	N)	-	-	1.87
Upper legs Force Left		0.35	0.23	
(kN) R	light	0.39	0.34	
Knee displ (mm) I	Left	0	0.62	
R	light	0.65	0.76	
Lower legs Force Left		1.19	1.43	
(kN) R	light	1.52	0.98	
Index (Upper/Low) Left		0.84/0.34	0.36/0.16	
R	light	0.83/0.39	0.3/0.19	

Modifiers for offset test scores

Head No penalty
Chest No penalty
Upper legs No penalty
Lower legs No penalty
Foot score Brake pedal movement Zero score

Head restraint position rating: Acceptable

Pedestrian rating:



2.00 Stars 17.30 points out of 36 (48.1%) Child head impacts 9.45 points; adult head impacts 7.85 points; upper leg impacts zero points; lower leg impacts zero points.



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