

# Crash Tests

## New Car Safety

### Volkswagen EOS

06/2006 on 01/0001 - Frontal+Side+Head

#### Overall Evaluation



**Overall Score**  
Variant: Ambiente

**31.35 out of 37**  
Engine: 1.6 litre  
Category: Sports

The left-hand-drive European model was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

#### Model History and Safety Features

The tested model of VW EOS was introduced in Australia during 2007. Dual front airbags, side airbags with chest and head protection are standard equipment. Antilock brakes (ABS) electronic brake distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats. 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. Pre-tensioners are fitted to the front seat belts to reduce slack in the event of a crash.

#### Overall Evaluation: 4

4 Stars. The VW EOS scored 12.35 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was marginal for the driver. The vehicle scored 16 out of 16 in the side impact crash test and a further two points in the optional pole test.

#### Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 3.72pts, upper legs 2 pts, lower legs 2.62pts. The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 68mm and upwards 57mm. The steering wheel hub moved rearwards 10mm, upwards 25mm and sideways 54mm. The front ("A") pillar moved 2mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door. The airbag cushioned the head of the driver and contact was stable. Steering column components were a potential source of injury for the driver's knees. The passenger injury values were good.

#### Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest 4pts, abdomen 4pts, pelvis 4pts. The vehicle was eligible for an optional pole impact test since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test. A door opened during the crash and so the vehicle earned 1 out of 2 available points.

#### Pedestrian rating (v4.1)



Child head impacts: 5.93.  
Adult head impacts: 2.  
Upper leg impacts: zero.  
Lower leg impacts 5.41.  
Total (out of 36): 13.34

Offset crash test at 64km/hr



#### Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test aa 50km/h (v4.1) Driver
	Driver	Passn	
Head			
- HIC	270	313	57
- Acceleration (g for 3ms)	38.4	44.2	31.6
Neck			
- Shear (kN)	0.24	0.61	
- Tension (kN)	1	0.68	
- Extension (Nm)	21.1	14.1	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	23.93	21.98	13.43
- Viscous Criterion (m/s)	0.09	0.06	0.05
Abdomen			
- Force (kN)			0.47
Pelvis			
- Force (kN)			1.28
Upper Legs Force (kN)			
- Left	0.34	0.49	
- Right	0.34	0.45	
Knee Displacement (kN)			
- Left	0	0.4	
- Right	0	0	
Lower Legs Force (kN)			
- Left	2.84	1.72	
- Right	3.35	1.98	
Index (Upper   Lower)			
- Left	0.56   0.58	0.23   0.23	
- Right	0.71   0.49	0.35   0.18	

#### Bonus points (maximum 5)

Pole Test: 1 pt  
Seat Belt Reminders: 2

#### Modifiers for offset test scores

Head	no deduction
Chest	no deduction
Upper leg	variable & Conc. loading
Lower leg	2 pt deduction L & R
Foot score	no deduction
Structure	4 points

#### Modifiers for side impact test scores

Head		
Chest		no deduction
Upper leg		
Lower leg		
Foot score		
Structure	pole test door opened during test	1 pt deduction



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