

Crash Tests

New Car Safety

Volvo C30

03/2007 on 01/0001 - Frontal+Side+Head

Overall Evaluation



Overall Score

33.99 out of 37

Variant: 3 Dr Hatch

Engine: 1.8 litre

Category: Medium Car

Vehicles tested after 1 January 2008 will require Electronic Stability Control in order to achieve a 5 star rating. This vehicle was tested prior to this date and may or may not meet this new requirement.

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 Volvo C30 was introduced in Australia during 2007. Dual front airbags, side airbags and head-protecting curtains are standard equipment. Antilock brakes (ABS) with electronic brake distribution (EBD) are also standard. Electronic stability control (ESC) is standard on the T5 and optional on other variants. 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 self-adjusting. 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: 5

5 Stars. The Volvo C30 scored 14.99 out of 16 in the offset crash test. The passenger compartment held its shape well. There was slight risk of serious leg injury for the driver and passenger. The vehicle scored 15 out of 16 in the side impact crash test. Injury measurements were good but the side curtain did not deploy fully during the crash. A further 2 points were earned in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 4pts, upper legs 3pts, lower legs 3.99pts. The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 26mm and upwards 8mm. The steering wheel hub moved forwards 61mm and downwards 28mm. The front ("A") pillar moved 24mm 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 and dash components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest 4pts, abdomen 4pts, pelvis 4pts. The side curtain caught on a child restraint component and did not fully deploy. The vehicle was eligible for an optional pole impact test since it had head-protecting side airbags and had a low risk of head injury in the side impact test. The manufacturer decided to go ahead with pole test and the vehicle earned a further two points.

Pedestrian rating (v4.1)



Child head impacts: 5.09.
Adult head impacts: 0.15.
Upper leg impacts: zero.
Lower leg impacts: 4.
Total (out of 36): 9.24.

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	Passn	Driver
Head			
- HIC	169	169	74
- Acceleration (g for 3ms)	34.4	32.1	26.2
Neck			
- Shear (kN)	0.23	0.38	
- Tension (kN)	1.28	0.86	
- Extension (Nm)	15.4	9.5	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	18.74	17.17	19.85
- Viscous Criterion (m/s)	0.04	0.05	0.15
Abdomen			
- Force (kN)			0.54
Pelvis			
- Force (kN)			1.65
Upper Legs Force (kN)			
- Left	0.73	1.1	
- Right	1.69	0.09	
Knee Displacement (kN)			
- Left	0	1	
- Right	1.2	0	
Lower Legs Force (kN)			
- Left	1.36	2.01	
- Right	1.74	1.83	
Index (Upper Lower)			
- Left	0.25 0.3	0.36 0.15	
- Right	0.28 0.14	0.29 0.21	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	no deduction
Chest	no deduction
Upper leg	variable loading
Lower leg	1 pt deduction L & R
Foot score	no deduction
Structure	4 points

Modifiers for side impact test scores

Head	airbag deployment	1 pt deduction
Chest		no deduction
Upper leg		
Lower leg		
Foot score		
Structure		



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