

# Crash Test Results

## New Car Safety

### MERCEDES-BENZ C-CLASS COUPE

From 2011 Front+side+head+knee airbags



Offset crash test at 64km/h

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.29 pts, upper legs 4 pts, lower legs 3.22 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 7 mm. The accelerator pedal moved downwards 2mm. The steering wheel hub moved 65mm forward, 10mm downward and 36 mm sideways. The front ("A") pillar moved 2mm rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. The passenger's head was cushioned by the airbag. There were no knee hazards.

#### SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for a pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

#### PEDESTRIAN PROTECTION: Acceptable

The bumper scored maximum points for its protection of pedestrians' legs. However, the front edge of the bonnet provided predominantly poor protection. The C-Class Coupe has an active bonnet. Sensors detect when a pedestrian has been struck and actuators raise the bonnet to provide greater clearance to hard structures beneath. Mercedes Benz showed that the system would detect a range of pedestrian statures and would work over a broad range of speeds, so the bonnet was tested in the raised position. In most areas likely to be struck by a child's head, the bonnet provided good protection. An adult's head might strike on the bonnet surface, where the car offered good protection, or on the windscreen, where protection was poor.

PEDESTRIAN PROTECTION	Child head impacts	8.64
<b>ACCEPTABLE</b>	Adult head impacts	6
	Upper leg impacts	0.01
	Lower leg impacts	6
	Total (out of 36)	20.65

Tested by Euro NCAP v5.3



■ PASS  
■ MARGINAL  
■ FAIL



**Occupant Protection Score 35.51 out of 37**

Variant: C220 CDI LHD Eng: 2.2 diesel

Kerb mass 1620 kg Category: CAR - LUXURY

Vehicles built: 2011 Tested by Euro NCAP

**Important note:** The *diesel 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 Mercedes-Benz C-Class Coupe was introduced in Australia and New Zealand during 2011. This ANCAP rating currently only applies to the 2.2 litre diesel variant. Further technical information is being sought about other variants.

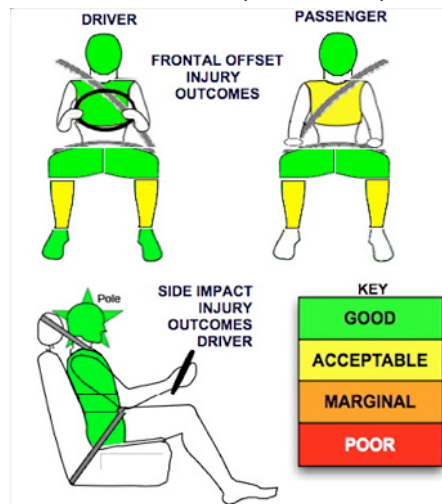
Dual front airbags, side airbags, head-protecting side curtains and driver knee airbag are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard along with several other advanced safety features. Intelligent seat belt reminders are fitted to all seats.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash.

#### OCCUPANT PROTECTION: 5 Stars

The C-Class Coupe scored 14.51 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious leg injury for the driver and passenger and a slight risk of serious chest injury for the passenger.

The vehicle scored 16 out of 16 in the side impact crash test and a further two points in the pole test.



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PO Box 4041

Manuka ACT 2603

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# TECHNICAL DATA - MERCEDES-BENZ C-CLASS COUPE - From 2011

## INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5.1)		Side Impact Crash Test at 50km/h (v5.1)
	Driver	Passenger	Driver
<b>Head</b> HIC	304	419	42
Acceleration (g for 3ms)	44.7	56.1	31.5
<b>Neck</b> - Shear (kN)	0.72	0.30	-
Tension (kN)	0.71	0.33	-
Extension (Nm)	7.5	6.5	-
<b>Chest</b> Accln (g for 3ms)	-	-	-
Compression (mm)	20.06	26.95	13.65
Viscous criterion (m/s)	0.07	0.12	0.05
<b>Abdomen</b> - Force (kN)	-	-	0.250
<b>Pelvis</b> - Force (kN)	-	-	1.460
<b>Upper legs</b> Force (kN)			
Left	1.72	1.60	
Right	2.30	0.20	
Knee displ (mm)			
Left	3.60	0.40	
Right	2.60	0.60	
<b>Lower legs</b> Force (kN)			
Left	3.17	2.24	
Right	2.38	2.19	
Index (Upper/Low)			
Left	0.53 /0.26	0.42 /0.24	
Right	0.33 /0.38	0.56/0.52	

### Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 3 (see table below for details)

### Modifiers - deductions from offset test scores

Head	No deduction
Chest	No deduction
Upper leg Variable & conc. loading	No deduction
Lower leg	No deduction
Foot score	Score 4 points

### Modifiers - deductions from side impact test scores

Chest	No deduction
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### Safety features

These specifications are subject to change. Please check with manufacturer for the latest specifications.



Driver airbag	S	Antilock (ABS) brakes / Electronic brake distribution / Brake Assist	S/S/S
Passenger front airbag	S	Electronic stability control (ESC, VSC, DSC, ESP, VSA)	S#
Side airbags, front seats - chest protection	S	3 point seat belt for all forward-facing seats	S
Side airbags, front seats - head protection	S	Whiplash protection (RCAR protocol)	Pending
Side airbags, rear seats - head protection		Intelligent seat belt reminder - driver	S
Driver knee airbag	S	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/Rear outboard)	S/X	Intelligent seat belt reminder - rear seats	S

Key:

S = standard on all variants

O = optional on base variant. May be standard on higher variants

V= not available on base variant but standard or optional on higher variants

X = not available on any variant

# ESC required by ANCAP for 5 star rating from 2008