

ANCAP Safety Rating

MERCEDES-BENZ C-CLASS CABRIOLET

(October 2016 - onwards)



ANCAP
Safety ★★★★★



Mercedes-Benz C-Class Cabriolet

This ANCAP safety rating applies to:

Make / Model	Mercedes-Benz C-Class Cabriolet
Year Range	October 2016 - onwards
Variant(s)*	All 2WD C200 and C300 variants
Vehicle Type	Sports Car

The tested model of Mercedes-Benz C-Class Cabriolet was introduced in Australia and New Zealand in October 2016 (built from May 2016). This rating applies to two-wheel-drive variants of the C200 and C300.

Dual frontal, side chest-protecting, side-head protecting and a driver's knee airbag are standard. Autonomous emergency braking (AEB) and a manual-set speed limiter are standard. A lane support system (LSS) is standard on the C300. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

Injury Outcomes.

Full Width Frontal

Driver Rear Passenger



Frontal Offset

Driver Front Passenger



Side Impact

Driver



Pole

Driver



Whiplash Protection

Rear Front



Test Results Summary.

Airbags	Dual Frontal, Side, Head, Knee
Adult Occupant Protection	84% (32.13 out of 38)
- Full Width Frontal Test	7.36 (out of 8)
- Frontal Offset Test	7.86 (out of 8)
- Side Impact Test#	8.00 (out of 8)
- Pole Test#	4.52 (out of 8)
- Whiplash Protection Test	1.62 (out of 3)
- AEB (City)	2.77 (out of 3)
Child Occupant Protection	79% (38.80 out of 49)
Safety Assist	53% (6.43 out of 12)
- Speed Assistance System	1.50 (out of 3)
- Seat Belt Reminders	3.00 (out of 3)
- Lane Support System	0.00 (out of 3)
- AEB (Interurban)	1.93 (out of 3)
Pedestrian Protection	66% (27.80 out of 42)
ANCAP Safety Rating	★★★★★
Rating Year^	2017

Scaled scores. Total test score out of 16.00 points.

Adult Occupant Protection.

Full Width Frontal Test

Each body region is scored out of 4 points

Driver	Rear Passenger
Head: 4.00 points	Head: 4.00 points
Neck: 4.00 points	Neck: 3.22 points
Chest: 3.44 points	Chest: 2.76 points
Upper legs: 4.00 points	Upper legs: 4.00 points

In the full width frontal test, dummy readings indicated acceptable protection of the driver's chest and the chest and neck of the rear passenger. Protection was good for all other critical body regions.

Frontal Offset Test

Each body region is scored out of 4 points

Driver / Front Passenger (lesser of each)
Head / neck: 4.00 points
Chest: 4.00 points
Upper legs: 4.00 points
Lower legs: 3.72 points

The passenger compartment remained stable in the frontal offset test. Dummy readings showed acceptable protection of the driver's lower legs. Protection of the passenger was good for all critical body areas.

Side Impact Test

Pole Test

Each body region is scored out of 4 points

Head: 4.00 points	Head: 4.00 points
Chest: 4.00 points	Chest: 1.05 points
Abdomen: 4.00 points	Abdomen: 4.00 points
Pelvis: 4.00 points	Pelvis: 4.00 points

Good protection was offered in the side impact test. However, in the more severe side pole test, dummy readings of rib compression indicated marginal protection of the chest. The C-Class Cabriolet is not fitted with head-protecting airbags for the rear seats and a penalty was applied.

Whiplash Protection

Front / Rear: 1.62 points
Rear: 0.00 points
AEB (City): 2.77 points

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Child Occupant Protection.

Crash Test Performance

6 year old child: 11.54 points
10 year old child: 7.76 points

In the frontal offset test, protection of both the 6 year and 10 year child dummy was good or adequate. However, in the side impact test, the head of the 10 year dummy contacted the metal frame of the folding roof and protection was rated as poor.

Child Safety Features & Child Seat Installation

Safety features: 8.00 points
Installation check: 11.50 points

NOTE: The child restraints tested by Euro NCAP are relevant to the European market. For Australasian consumers, this information should be used as a guide to vehicle features only. For more detailed information about Australian child restraints visit childcarseats.com.au.

Pedestrian Protection.

Pedestrian Test

Scored out of 42 points

Adult & child head impacts: 21.00 points
Upper leg impacts: 0.80 points
Lower leg impacts: 6.00 points
AEB (VRU): 0.00 points

This vehicle scored 27.80 out of 42 points. The C-Class Cabriolet has an 'active' bonnet - sensors detect when a pedestrian has been struck and actuators raise the bonnet to provide greater clearance to the stiff structures in the engine compartment. Results were good at most test locations on the bonnet surface. Protection of the pelvis was predominantly poor. A pedestrian-detecting autonomous braking system is available on some variants but is not included in this assessment as it is not standard. (Tested by Euro NCAP v8.3)



GOOD
ADEQUATE
MARGINAL
WEAK
POOR

Score Deductions.

Deductions from full width frontal test scores

Neck: No deductions
Head: No deductions
Chest: No deductions
Upper legs / pelvis: No deductions
Overall: No deductions

Deductions from frontal offset test scores

Head / neck: No deductions
Chest: No deductions
Upper legs: No deductions
Lower legs: No deductions
Overall: No deductions

Deductions from side impact test score

No deductions

Deductions from pole test score

Overall: -4.0 points (head-protecting airbag does not extend to rear seats)

Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at ancap.com.au.

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point, lap / sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 nd row seats)	S
Intelligent seat belt reminder (3 rd row seats)	N/A
Airbag – Frontal (driver)	S
Airbag – Frontal (passenger)	S
Airbag – Side, chest protection (front seats)	S
Airbag – Side, chest protection (2 nd row seats)	S
Airbag – Side, head protection (front seats)	S
Airbag – Side, head protection (2 nd row seats)	X
Airbag – Side, head protection (3 rd row seats)	N/A
Airbag – Knee (driver)	S
Airbag – Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	V
Adaptive front lighting system	S
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	S
- Interurban	S
- Vulnerable road user	V
Automatic headlights	S
Automatic high beam	S
Blind spot monitoring (BSM)	S
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal (ESS)	S
Fatigue monitoring	S
Forward collision warning (FCW)	S
Lane support system (LSS)	V
Daytime running lights (DRL)	S
Hill launch assist	S
Pre-crash systems	S
Reversing collision avoidance	S
Speed assistance – automatic / intelligent speed limiting (ISA)	X
Speed assistance - manual speed limiting	S
Speed assistance - speed sign recognition & warning	E
Tyre pressure monitoring system (TPMS)	S

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.

E = Available in Europe but not available on any Australasian variant.

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

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Safety Assist.

Speed Assistance System (SAS)

Scored 1.5 out of 3 points

Speed information:	0.00
Speed assistance (manual):	1.50
Speed assistance (automatic / intelligent):	0.00

AEB (Interurban)

Scored 1.93 out of 3 points

Autonomous emergency braking (AEB):	0.88 out of 1.5
Forward collision warning (FCW):	0.67 out of 1.0
Human machine interface (HMI):	0.38 out of 0.5

Seat Belt Reminder (SBR)

Scored 3.0 out of 3 points

Driver and passenger:	2.00 out of 2.00
Rear:	1.00 out of 1.00

Lane Support Systems (LSS)

Scored 0.0 out of 3 points

[Not assessed]

A driver-set speed limiter and an autonomous emergency braking (AEB) system which operates at highway speeds are fitted as standard. Tests of this system demonstrated adequate performance. An active lane support system (LSS) is available on some variants, but as this system is not standard it is not included in this assessment.

Approaching a stationary vehicle:

11.05 out of 18.00 points for Forward Collision Warning (FCW)



Approaching a slow moving vehicle:

9.25 out of 11.00 points for Autonomous Emergency Braking (AEB)



Approaching a braking vehicle with short headway:

0.38 out of 2.00 points for AEB, 0.57 out of 2.00 points for FCW



Approaching a braking vehicle with long headway:

0.95 out of 2.00 points for AEB, 1.34 out of 2.00 points for FCW



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Injury Values & Measurements.

Body Region	Frontal offset test at 64km/h (v7.1)		Full width frontal test at 50km/h (v1)		Side impact test at 50km/h (v7)	Oblique pole test at 32km/h (v7)
	Driver	Front Passenger	Driver	Rear Passenger	Driver	Driver
Head						
HIC	152.00	172.00	269.71	476.61	11.00	257.03
Acceleration (g for 3ms)	41.00	43.10	54.20	69.09	15.10	52.18
Neck						
Shear (kN)	0.59	0.39	0.59	1.26	-	-
Tension (kN)	0.43	0.69	1.03	2.34	-	-
Extension (Nm)	5.60	15.10	11.87	19.80	-	-
Chest						
Acceleration (g for 3ms)	-	-	-	-	-	-
Compression (mm)	19.01	16.14	21.34	25.46	12.63	44.24
Viscous criterion (m/s)	0.06	0.05	0.09	0.08	1.54	0.57
Abdomen						
Compression (mm)	-	-	-	-	13.74	31.70
Pelvis						
Force (kN)	-	-	-	-	0.50	-
Upper legs						
Femur force left (kN)	0.81	0.00	2.08	0.09	-	-
Femur force right (kN)	0.96	0.19	1.81	0.16	-	-
Knee displacement left (mm)	0.00	0.09	2.87	0.00	-	-
Knee displacement right (mm)	1.21	0.00	2.54	0.00	-	-
Lower legs						
Force left (kN)	2.12	1.86	-	-	-	-
Force right (kN)	2.42	1.14	-	-	-	-
Index (upper / lower) left	0.32 / 0.21	0.36 / 0.28	-	-	-	-
Index (upper / lower) right	0.36 / 0.13	0.29 / 0.18	-	-	-	-
Intrusion Measurements						
Steering column						
Forward (mm)	49	-	-86	-	-	-
Upward (mm)	7	-	34	-	-	-
Sideways (mm)	4	-	4	-	-	-
Pedals						
Brake - rearward (mm)	31	-	-	-	-	-
Brake - upward (mm)	10	-	-	-	-	-
A-Pillar						
Rearward (mm)	11.00	-	-	-	-	-

* **Model Variants:** ANCAP safety ratings do not automatically extend to variants that have different body styles, engine configurations, driven wheels or occupant restraint systems (e.g. fewer airbags). In these cases, ANCAP considers technical evidence submitted by manufacturers before deciding on extending a rating to additional variants of a model. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ **Rating Year:** The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

Assessment Details.

Tested Make / Model	Mercedes-Benz C-Class Cabriolet
Tested Vehicle(s) Built	2017
Tested Body Type	2 door Cabriolet
Tested Vehicle Kerb Weight	1745 kg
Tested Vehicle Engine	2.2 litre diesel
Tested By	Euro NCAP
Assessed By	Euro NCAP
Document Reference	C-ClassCabrio17
Document Created / Revised	6 September 2017
Rating Published	September 2017
Rating Updated	n/a



Frontal offset test at 64km/h