

ANCAP Safety Rating

MERCEDES-BENZ CLA CLASS

(From 2013)



Test Vehicle(s)

Variant:	Mercedes-Benz CLA Class 200 Urban
Kerb Mass:	1430 kg
Built:	2013
Engine:	1.6 petrol
Category:	Medium Car
Variant Applicability*:	All coupe/SEDAN variants

Note: The left-hand-drive European model with 1.6 petrol engine was tested by Euro NCAP.



Frontal offset test at 64 km/h (Euro NCAP)

Airbags	ESC	Frontal Offset	Side Impact	Pole	Whiplash	Pedestrian	Seat Belt Reminders	Overall Score	ANCAP Safety Rating
Frontal + Side + Head + Knee	Standard	15.16 (out of 16)	16.00 (out of 16)	2.00 (out of 2)	GOOD	ACCEPTABLE	3 (out of 3)	36.16 (out of 37)	★★★★★

The tested model of Mercedes-Benz CLA Class was introduced in Australia and New Zealand in 2013. This ANCAP safety rating applies to all coupe/SEDAN variants. The Shooting Brake variant is unrated.

Dual frontal, side chest and pelvis and side head airbags (curtains) and a driver knee airbag are standard. Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are also standard. Advanced seat belt reminders are fitted to all seats.

In the offset crash test driver chest protection was acceptable and passenger leg protection was acceptable. Driver protection in the side impact crash test was good. Head protection in the side pole test was good.

OCCUPANT PROTECTION

Frontal Offset Test.

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.87 points
Upper legs:	4.00 points
Lower legs:	3.29 points

The passenger compartment held its shape well in the offset test. Pedal and steering wheel displacements were well controlled. Driver and passenger contact with the airbags was stable. All doors remained closed during the crash.

Side Impact Test.

Each body region is scored out of 4 points

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

Good protection was provided for the driver in the side impact test. The side airbags performed well.

Pole Test.

Scored out of 2 points

The vehicle was eligible for a side pole test because it has side curtain airbags. The vehicle scored the maximum 2 points for head protection in this test.

Whiplash Protection Test.

Whiplash protection is assessed to the RCAR Protocol

Geometric test:	Good
Dynamic test:	Good
Overall whiplash rating:	GOOD

Injury Outcomes.

Frontal Offset Driver



Passenger



Side Impact & Pole Driver



Whiplash



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PEDESTRIAN PROTECTION

Pedestrian Test.

ACCEPTABLE - Scored 26.95 out of 36 points

Child head impacts: 10.00 points
 Adult head impacts: 6.95 points
 Upper leg impacts: 4.00 points
 Lower leg impacts: 6.00 points

The CLA is equipped with an active bonnet. Sensors detect when a pedestrian has been struck and automatically raise the bonnet to provide greater clearance to the hard structures beneath. Mercedes-Benz showed that the system triggered robustly over a range of speeds and for different statures of pedestrians, so the car was tested with the system deployed. As a result, protection of the head is good over most of the bonnet surface. The protection of pedestrians' legs by the bumper is also good. The front edge of the bonnet also provided predominantly good protection to the pelvis region.



Mercedes-Benz CLA Class



(Tested by Euro NCAP v6.0)

SAFETY FEATURES

These specifications are subject to change. Please check with manufacturer for the latest specifications. For a description of these safety features and safety rating requirements see the ANCAP Rating Road Map.

Safety Assist Technology (SAT)	Availability
Front airbag - driver	S
Front airbag - passenger	S
Side airbags (chest protection) - front seats	S
Side airbags (head protection) - front seats	S
Side airbags (head protection) - 2nd row seats	S
Knee airbag - driver	S
Three-point seat belts for all forward facing seats	S
Seat belt pretensioners (front / rear outboard)	S / S
Intelligent seat belt reminder - driver	S
Intelligent seat belt reminder - front passenger	S
Intelligent seat belt reminder - 2nd row seats	S
Head restraints for all seats	S
Antilock brakes (ABS)	S
Electronic brake distribution (EBD)	S
Emergency brake assist (EBA)	S
Electronic stability control (ESC)	S
Adaptive cruise control (ACC)	O
Autonomous emergency braking (AEB)	O
Lane support system	O
Adaptive front lighting systems	O
Automatic high beam	S
Blind spot monitoring	S
Daytime running lights	S
Fatigue reminder	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.

INJURY MEASUREMENTS

Body Region	Frontal offset test at 64 km/h (v5.1)		Side impact test at 50 km/h (v5.1)
	Driver	Passenger	Driver
Head			
HIC	360.00	269.00	46.00
Acceleration (g for 3ms)	48.70	39.40	25.30
Neck			
Shear (kN)	0.71	0.57	-
Tension (kN)	1.14	0.44	-
Extension (Nm)	9.20	7.80	-
Chest			
Acceleration (g for 3ms)			-
Compression (mm)	22.91	19.53	19.54
Viscous criterion (m/s)	0.04	0.04	0.08
Abdomen			
Force (kN)	-	-	0.70
Pelvis			
Force (kN)	-	-	0.93
Upper legs			
Femur force left (kN)	0.39	0.14	
Femur force right (kN)	0.42	0.37	
Knee displacement left (mm)	0.09	0.03	
Knee displacement right (mm)	1.20	0.04	
Lower legs			
Force left (kN)	1.69	1.90	
Force right (kN)	1.50	1.24	
Index (upper / lower) left	0.30 / 0.27	0.56 / 0.20	
Index (upper / lower) right	0.38 / 0.17	0.32 / 0.13	

INTRUSION MEASUREMENTS

Steering Column

Forwards:	67mm
Downwards:	10mm
Sideways:	8mm

Pedals

Brake (rearwards):	10mm
Throttle (downwards):	16mm
A-Pillar (rearwards):	0mm

SCORE DEDUCTIONS

Deductions from frontal offset test scores

No deductions for offset test

Deductions from side impact test score

No deductions for side impact test.

Deductions from pole test score

No deductions for pole test.

* For information about the application of ANCAP ratings to model variants see the ANCAP Variant Policy. In brief, 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.

^ Refer ANCAP Rating Road Map (www.ancap.com.au/media).

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