

ANCAP Safety Rating

HOLDEN BARINA (From Oct 2011)



ANCAP
Safety ★★★★★

Test Vehicle(s).

Variant:	Holden Barina (Chev Aveo) 5 door hatch
Kerb Mass:	1100 kg
Built:	2011
Engine:	1.2 petrol
Category:	SMALL CAR
Variant Applicability*:	All TM series hatch and sedan variants and all engines



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

Note: The left-hand-drive European model was tested by Euro NCAP. ANCAP was provided with information which showed that the Euro NCAP results apply to the Australasian model.

Airbags	ESC	Frontal Offset	Side Impact	Pole	Whiplash	Pedestrian	Seat Belt Reminders	Overall Score	ANCAP Safety Rating
Frontal + Side + Head	Standard	15.43 (out of 16)	16.00 (out of 16)	2.000 (out of 2)	NOT RATED	ACCEPTABLE	2 (out of 3)	35.43 (out of 37)	★★★★★

The tested model of Holden Barina was introduced in Australia and New Zealand in 2011. This ANCAP safety rating applies to all TM series hatch & sedan variants and all engines. It does not include the Barina "Classic" (TK) or the Barina Spark.

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

In the offset crash test driver chest and leg protection was acceptable. Passenger chest and leg protection was also acceptable. There was good protection for the driver in the side impact test. 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:	3.51 points
Upper legs:	4.00 points
Lower legs:	3.91 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. After the crash all doors could be opened with normal effort.

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

Overall whiplash rating: NOT RATED

Injury Outcomes.

Frontal Offset
Driver



Passenger



Side Impact & Pole
Driver



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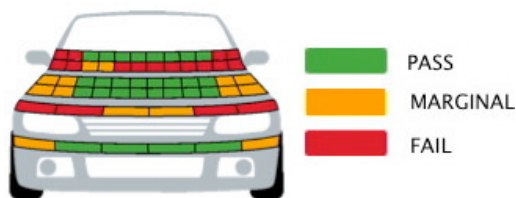
PEDESTRIAN PROTECTION

Pedestrian Test.

ACCEPTABLE - Scored 19.30 out of 36 points

Child head impacts: 9.66 points
Adult head impacts: 4.09 points
Upper leg impacts: 0.20 points
Lower leg impacts: 5.35 points

The bumper provided mostly good protection to pedestrians' legs. However, the front edge of the bonnet was predominantly poor. The bonnet provided good protection in most areas likely to be struck by the head of child but was mostly poor in those areas where an adult's head would strike.



(Tested by Euro NCAP v5.3)



Holden Barina

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	X
Three-point seat belts for all forward facing seats	S
Seat belt pretensioners (front / rear outboard)	S / X
Intelligent seat belt reminder - driver	S
Intelligent seat belt reminder - front passenger	S
Intelligent seat belt reminder - 2nd row seats	X
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)	X
Autonomous emergency braking (AEB)	X
Lane support system	X

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.

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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	590.00	403.00	55.00
Acceleration (g for 3ms)	62.40	48.50	23.40
Neck			
Shear (kN)	0.85	0.38	-
Tension (kN)	1.18	1.26	-
Extension (Nm)	11.60	21.90	-
Chest			
Acceleration (g for 3ms)			-
Compression (mm)	25.40	22.67	16.78
Viscous criterion (m/s)	0.05	0.06	0.07
Abdomen			
Force (kN)	-	-	0.33
Pelvis			
Force (kN)	-	-	1.26
Upper legs			
Femur force left (kN)	0.12	0.20	
Femur force right (kN)	0.00	0.10	
Knee displacement left (mm)	0.00	0.00	
Knee displacement right (mm)	0.00	0.00	
Lower legs			
Force left (kN)	1.72	2.06	
Force right (kN)	1.49	1.52	
Index (upper / lower) left	0.35 / 0.14	0.26 / 0.19	
Index (upper / lower) right	0.42 / 0.26	0.27 / 0.13	

INTRUSION MEASUREMENTS

Steering Column

Forwards:	50mm
Downwards:	4mm
Sideways:	6mm

Pedals

Brake (rearwards):	45mm
BRAKE (upwards):	14mm
A-Pillar (rearwards):	3mm

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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ANCAP
Crash testing for safety
AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM