

# Crash Test Results

## New Car Safety

### BMW 1-SERIES

From 2011 Front+side+head airbags



**ANCAP**  
Rated ★★★★★

**Occupant Protection**

**Occupant Protection Score 36.33 out of 37**

Variant: 116 LHD

Eng: 1.6 petrol

Kerb mass 1370 kg

Category: CAR - SMALL

Vehicles built: 2011

Tested by Euro NCAP

**Important note:** 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 BMW 1-Series was introduced in Australia and New Zealand in 2011. This ANCAP rating currently applies to variants with a 1.6 litre petrol engine. Further technical information is being sought about other variants.

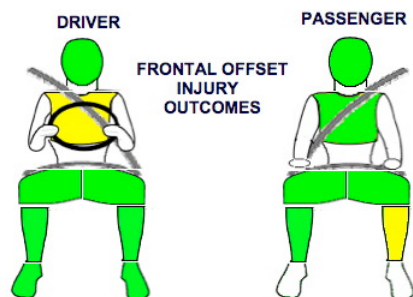
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to all seats.

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

#### OCCUPANT PROTECTION: 5 Stars

The 1-Series scored 15.45 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest injury for the driver and a slight risk of serious leg injury for the passenger.

The vehicle scored 15.88 out of 16 in the side impact crash test. There was a slight risk of serious chest and abdomen injury for the driver. A further two points were earned in the pole test.



Offset crash test at 64km/h

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.75 pts, upper legs 4 pts, lower legs 3.69 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 31 mm. The clutch pedal moved upwards 2 mm. The steering wheel hub moved 57mm forward, 21mm downward and 8 mm sideways. The front ("A") pillar moved 13 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with high manual 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 3.88 pts, abdomen 4 pts, pelvis 4 pts.

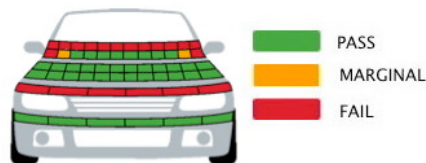
The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

#### PEDESTRIAN PROTECTION: Acceptable

In all areas likely to be struck by a child's head, the bonnet offered good protection and the car scored maximum points for this part of the assessment. For an adult's head, protection was predominantly poor, although some areas tested were good. The bumper offered good protection to pedestrians' legs in all areas, and scored maximum points. However, the front edge of the bonnet was poor and scored no points.

PEDESTRIAN PROTECTION		
<b>ACCEPTABLE</b>	Child head impacts	12
	Adult head impacts	4.62
	Upper leg impacts	Zero
	Lower leg impacts	6
	Total (out of 36)	22.62

Tested by Euro NCAP v5.3



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**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

# TECHNICAL DATA - BMW 1-SERIES - 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	205	263	37
Acceleration (g for 3ms)	35.2	41.0	27.1
<b>Neck</b> - Shear (kN)	0.44	0.52	-
Tension (kN)	1.20	0.43	-
Extension (Nm)	8.9	14.7	-
<b>Chest</b> Accln (g for 3ms)	-	-	-
Compression (mm)	23.73	20.44	22.60
Viscous criterion (m/s)	0.08	0.05	0.22
<b>Abdomen</b> - Force (kN)	-	-	0.650
<b>Pelvis</b> - Force (kN)	-	-	0.910
<b>Upper legs</b> Force (kN)			
Left	0.11	0.30	
Right	0.17	0.20	
Knee displ (mm)			
Left	0.20	0.20	
Right	0.00	0.00	
<b>Lower legs</b> Force (kN)			
Left	1.76	2.46	
Right	1.73	1.49	
Index (Upper/Low)			
Left	0.38 /0.18	0.37 /0.16	
Right	0.30 /0.17	0.24/0.13	

### 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	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	S	Intelligent seat belt reminder - driver	S
Driver knee airbag	X	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

