

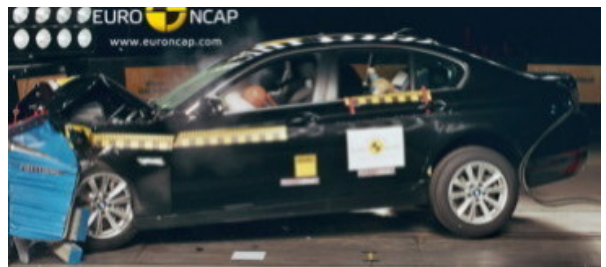
# Crash Test Results

## New Car Safety

### BMW 5-SERIES

2010 on

Front+side+head airbags



Offset crash test at 64km/h

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.71 pts, upper legs 4 pts, lower legs 3.82 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 38 mm. The clutch pedal moved downwards 3mm. The steering wheel hub moved 7mm forward, 7 mm upward and 4 mm sideways. The front ("A") pillar moved 1 mm 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. There were no knee hazards. The passenger's head was cushioned by the airbag.

#### SIDE IMPACT CRASH TEST

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

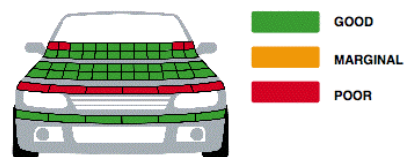
The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

#### PEDESTRIAN PROTECTION: Good

The 5 series is fitted with an 'active bonnet'. When a pedestrian is struck, actuators lift all four corners of the bonnet away from hard structures underneath. The bonnet has scored maximum points in the areas likely to be struck by the head of a child and has scored very highly in those areas likely to be struck by an adult. The front edge of the bonnet did not score any points for the protection provided to pedestrians' legs but the bumper scored maximum points.

PEDESTRIAN PROTECTION		
<b>GOOD</b>	Child head impacts	12
	Adult head impacts	10
	Upper leg impacts	Zero
	Lower leg impacts	6
	Total (out of 36)	28

Tested by Euro NCAP v5



ANCAP
Occupant Protection  
Rated ★★★★★

**Occupant Protection Score 36.53 out of 37**

Variant: 530d

Eng: 3 litre diesel

Kerb weight: 1790 kg

Category: CAR - LARGE

Vehicles built: 2010

Tested by Euro NCAP

**Important note:** The *diesel left-hand-drive* European 530d 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 5-Series was introduced in Australia during 2010. This rating applies all variants with 4 and 6 cylinder engines. The V8 variant is unrated.

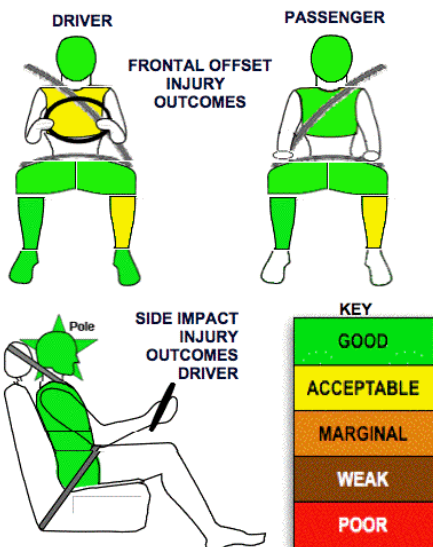
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to all seats. Other safety features include a head-up display, lane guidance, active cruise control, rear view camera and night vision enhancement.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

#### OCCUPANT PROTECTION: 5 Stars

The 5-Series scored 15.531 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious leg and chest injury for the driver.

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



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## ANCAP

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

# TECHNICAL DATA - BMW 5-SERIES - 2010 ON

## INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5)		Side Impact Crash Test at 50km/h (v5)
	Driver	Passenger	Driver
<b>Head HIC</b>	201	377	20
Acceleration (g for 3ms)	34.1	46.9	17.1
<b>Neck - Shear (kN)</b>	0.48	0.63	-
Tension (kN)	0.87	0.84	-
Extension (Nm)	7.0	9.0	-
<b>Chest Accln (g for 3ms)</b>	-	-	-
Compression (mm)	24.04	13.29	15.21
Viscous criterion (m/s)	0.09	0.04	0.06
<b>Abdomen - Force (kN)</b>	-	-	0.42
<b>Pelvis - Force (kN)</b>	-	-	0.87
<b>Upper legs Force (kN)</b>			
Left	0.26	1.90	
Right	0.12	0	
Knee displ (mm)			
Left	0	0	
Right	0	0	
<b>Lower legs Force (kN)</b>			
Left	2.01	2.11	
Right	1.91	1.81	
Index (Upper/Low)			
Left	0.32 /0.14	0.44 /0.12	
Right	0.28 /0.20	0.31/0.14	

### 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	No deduction

### 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 centre rear seat belt	S
Side airbags, front seats - head protection	S	Whiplash protection rating	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