ANCAP Safety Rating MAZDA 6 (From Dec 2012)



Test Vehicle(s).

Variant:	2.2 diesel wagon
Kerb Mass:	1420 kg
Built:	2013
Engine:	2.2 diesel
Category:	Medium Car
Variant Applicability*:	Applies to all sedan & wagon variants

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



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	Standard	14.44 (out of 16)	16.00 (out of 16)	2.000 (out of 2)	GOOD	ACCEPTABLE	3 (out of 3)	35.44 (out of 37)	****

The Mazda 6 was introduced in Australia and New Zealand in late 2012. This ANCAP safety rating applies to all sedan and wagon variants.

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 all seats.

In the offset crash test driver chest and leg protection was acceptable. Passenger chest protection was also acceptable. Side impact protection 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:	3.10 points
Upper legs:	4.00 points
Lower legs:	3.33 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.



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PEDESTRIAN PROTECTION

Pedestrian Test.

ACCEPTABLE - Scored 23.76 out of 36 points

Child head impacts:			
Adult head impacts:			
Upper leg impacts:			
Lower leg impacts:			

8.8/10.5 points 8.97/13.50 points 0.00/6 points 6.00/6 points

The bumper scored maximum points for its protection of pedestrians' legs. However, the front edge of the bonnet offered poor protection to the pelvis of a struck pedestrian and scored no points. On the bonnet surface, head protection was predominantly good or adequate.





Mazda 6

(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	Х
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	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)	V
Autonomous emergency braking (AEB)	V
Lane support system (LSS)	V
Blind spot monitoring	V
Automatic high beam	V
Emergency stop signal (ESS)	S
Hill launch assist	S
Reversing collision avoidance (camera)	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

	Frontal offset	Side impact test at 50 km/h	
Body Region	(ve	(v6.0)	
	Driver	Passenger	Driver
Head			
HIC	220.00	202.00	25.00
Acceleration (g for 3ms)	37.70	34.60	17.40
Neck			
Shear (kN)	0.25	0.55	-
Tension (kN)	1.34	0.82	-
Extension (Nm)	18.60	8.50	-
Chest			
Acceleration (g for 3ms)			-
Compression (mm)	23.33	28.27	10.55
Viscous criterion (m/s)	0.06	0.11	0.03
Abdomen			
Force (kN)	-	-	0.47
Pelvis			
Force (kN)	-	-	1.26
Upper legs			
Femur force left (kN)	0.39	0.43	
Femur force right (kN)	1.13	0.54	
Knee displacement left (mm)	0.00	2.35	
Knee displacement right (mm)	0.15	4.34	
Lower legs			
Force left (kN)	1.18	1.38	
Force right (kN)	2.72	1.30	
Index (upper / lower) left	0.28 / 0.27	0.20 / 0.30	
Index (upper / lower) right	0.40 / 0.55	0.30 / 0.18	

INTRUSION MEASUREMENTS

Steering Column	
Forwards:	46mm
Downwards:	61mm
Sideways:	1mm
Pedals	
Accelerator (rearwards):	21mm
Clutch (upwards):	11mm
A-Pillar (rearwards):	2mm

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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