

ANCAP Safety Rating

BMW X1 (October 2015 - onwards)



BMW X1

This ANCAP safety rating applies to:

Make / Model	BMW X1
Year Range	October 2015 - onwards
Variants*	All variants
Vehicle Type	Compact SUV

The tested model of BMW X1 was introduced in Australia and New Zealand in October 2015. This ANCAP safety rating applies to all front-wheel-drive and all-wheel-drive variants.

Dual frontal, side chest and side head airbags (curtains) are standard. All three grades of autonomous emergency braking (City, Interurban & Vulnerable Road User) are standard, as are lane support and pre-crash systems. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

Injury Outcomes.

Full Width Frontal
Driver Rear Passenger Frontal Offset
Driver Front Passenger



Side Impact
Driver



Pole
Driver



Whiplash Protection
Rear Front



Test Results Summary.

Airbags	Dual Frontal, Side, Head
Adult Occupant Protection	90% (34.48 out of 38)
- Full Width Frontal Test	7.64 (out of 8)
- Frontal Offset Test	6.48 (out of 8)
- Side Impact Test [#]	8.00 (out of 8)
- Pole Test [#]	8.00 (out of 8)
- Whiplash Protection Test	2.34 (out of 3)
- AEB (City)	2.03 (out of 3)
Child Occupant Protection	87% (43.00 out of 49)
Safety Assist	70% (9.13 out of 13)
- Speed Assistance System	1.33 (out of 3)
- ESC	3.00 (out of 3)
- Seat Belt Reminders	3.00 (out of 3)
- Lane Support System	0.00 (out of 1)
- AEB (Interurban)	1.80 (out of 3)
Pedestrian Protection	74% (26.74 out of 36)
ANCAP Safety Rating	★★★★★
Rating Year[^]	2015

[#] Scaled scores. Total test score out of 16.00 points.

Adult Occupant Protection.

Full Width Frontal Test

Each body region is scored out of 4 points

Driver	Rear Passenger
Head: 4.00 points	Head: 4.00 points
Neck: 4.00 points	Neck: 4.00 points
Chest: 3.46 points	Chest: 3.11 points
Upper legs: 4.00 points	Upper legs: 4.00 points

Frontal Offset Test

Each body region is scored out of 4 points

Driver / Front Passenger (lesser of each)

Head / neck: 4.00 points
Chest: 1.62 points
Upper legs: 4.00 points
Lower legs: 3.33 points

The passenger compartment held its shape well in the frontal 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

Pole Test

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

Whiplash Protection

Front / Rear: 1.71 points
Rear: 0.63 points
AEB (City): 2.03 points

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Child Occupant Protection.

Crash Test Performance

18 month old child: 12.00 points
3 year old child: 12.00 points

Child Safety Features & Child Seat Installation

Safety features: 7.00 points
Installation check: 12.00 points

NOTE: The child restraints tested by Euro NCAP are relevant to the European market. For Australasian consumers, this information should be used as a guide to vehicle features only. For more detailed information about Australian child restraints visit childcarseats.com.au.

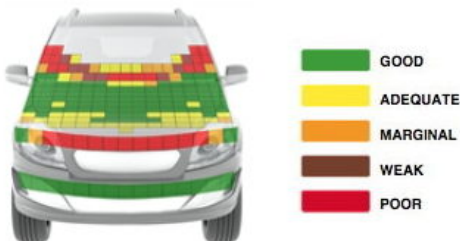
Pedestrian Protection.

Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 19.40 points
Upper leg impacts: 1.34 points
Lower leg impacts: 6.00 points

This vehicle scored 26.74 out of 36 points (Acceptable). The X1 has a 'pop-up' bonnet. Results on the bonnet surface were almost entirely good, with some areas of adequate protection to a pedestrian's head. Some poor results were recorded on the front edge of the windscreen and on the stiff windscreen pillars. The bumper scored maximum points for the protection it offered to pedestrians' legs. Protection of the pelvic region was predominantly poor. (Tested by Euro NCAP v8.2)



Score Deductions.

Deductions from full width frontal test scores

Neck: No deductions
Head: No deductions
Chest: No deductions
Upper legs: No deductions

Deductions from frontal offset test scores

Head / neck: No deductions
Chest: No deductions
Upper legs: No deductions
Lower legs: No deductions

Deductions from side impact test score

Head / neck: No deductions
Chest: No deductions
Abdomen: No deductions
Pelvis: No deductions

Deductions from pole test score

Head: No deductions

Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at ancap.com.au.

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point, lap/sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 nd row seats)	S
Airbag - Frontal (driver)	S
Airbag - Frontal (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 nd row seats)	X
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 nd row seats)	S
Airbag - Knee (driver)	X
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	O
Adaptive front lighting systems	S
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	S
- Interurban	S
- Vulnerable road user	S
Automatic emergency call (e-call)	S
Automatic headlights	S
Automatic high beam	S
Blind spot monitoring (BSM)	X
Daytime running lights (DRL)	S
Electronic brakeforce distribution (EBD)	S
Electronic data recorder	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal (ESS)	S
Fatigue reminder	S
Hill launch assist	S
Lane support system (LSS)	S
Pre-crash systems	S
Rain sensing wipers	S
Reversing collision avoidance	S
Roll stability system	S
Rollover occupant protection systems	S
Speed assistance - automatic/intelligent speed limiting (ISA)	X
Speed assistance - manual speed limiting/warning	S
Speed assistance - speed sign recognition	E
Trailer stability control	S
Tyre pressure monitoring system (TPMS)	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.

E = Available in Europe / USA but not available on any Australasian variant.

These specifications are subject to change. Please check with the manufacturer for the latest specifications.

Safety Assist.

Speed Assistance System (SAS)

Scored 1.33 out of 3 points

Speed information: Not available
 Speed assistance (manual): Pass
 Speed assistance (automatic / intelligent): Not available

The vehicle tested by Euro NCAP had camera-based speed sign recognition. This system is not available for Australasia and so points were only awarded for a manual speed limiter.

Electronic Stability Control (ESC)

Scored 3.00 out of 3 points

AEB (Interurban)

Scored 1.78 out of 3 points

Autonomous emergency braking (AEB): 0.62 out of 1.5
 Forward collision warning (FCW): 0.92 out of 1.0
 Human machine interface (HMI): 0.25 out of 0.5

Approaching a stationary vehicle:

17.01 out of 18.00 points for Forward Collision Warning (FCW)



Approaching a slow moving vehicle:

6.09 out of 11.00 points for Autonomous Emergency Braking (AEB), 11.00 out of 11.00 points for FCW



Approaching a braking vehicle with short headway:

0.53 out of 2.00 points for AEB, 1.23 out of 2.00 points for FCW



Approaching a braking vehicle with long headway:

0.54 out of 2.00 points for AEB, 2.00 out of 2.00 points for FCW



Injury Values & Measurements.

Body Region	Frontal offset test at 64km/h (v7)		Full width frontal test at 50km/h (v1)		Side impact test at 50km/h (v7)	Oblique pole test at 32km/h (v7)
	Driver	Front Passenger	Driver	Rear Passenger	Driver	Driver
Head						
HIC	282.00	383.00	193.00	260.00	20.00	242.00
Acceleration (g for 3ms)	55.10	59.20	48.60	52.40	18.10	56.13
Neck						
Shear (kN)	0.60	0.53	0.34	1.01	-	-
Tension (kN)	1.41	0.54	1.54	1.59	-	-
Extension (Nm)	8.90	6.50	13.90	13.90	-	-
Chest						
Acceleration (g for 3ms)	-	-	-	-	-	-
Compression (mm)	33.92	28.34	21.24	23.35	13.32	25.42
Viscous criterion (m/s)	0.16	0.10	0.10	0.14	0.09	0.35
Abdomen						
Compression (mm)	-	-	-	-	11.14	29.51
Pelvis						
Force (kN)	-	-	-	-	0.69	
Upper legs						
Femur force left (kN)	0.34	1.73	0.50	0.54		
Femur force right (kN)	1.01	0.61	0.25	0.52		
Knee displacement left (mm)	0.03	5.28	0.55			
Knee displacement right (mm)	0.47	1.86	1.83			
Lower legs						
Force left (kN)	1.27	1.92	-	-		
Force right (kN)	1.81	1.46	-	-		
Index (upper / lower) left	0.55 / 0.23	0.41 / 0.17	-	-		
Index (upper / lower) right	0.47 / 0.32	0.34 / 0.15	-	-		
Intrusion Measurements						
Steering column						
Forward (mm)	-49	-	-	-		
Upward (mm)	-5	-	-	-		
Sideways (mm)	9	-	-	-		
Pedals						
Brake - rearward (mm)	70	-	-	-		
Accelerator - upward (mm)	10	-	-	-		
A-Pillar						
Rearward (mm)	11.00	-	-	-		

* **Model Variants:** ANCAP safety 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. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ **Rating Year:** The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

Assessment Details.

Tested Make / Model	BMW X1 sDrive18d LHD
Tested Vehicle(s) Built	2015
Tested Body Type	Wagon
Tested Vehicle Kerb Weight	1320 kg
Tested Vehicle Engine	1.8 litre diesel
Tested By	Euro NCAP
Assessed By	Euro NCAP
Document Reference	X1_15
Document Created / Revised	3 October 2016
Rating Published	October 2016
Rating Updated	n/a



Frontal offset test at 64km/h