



**Mercedes-Benz X-Class**  
Standard Safety Equipment

2017



Adult Occupant



90%

Child Occupant



87%

VRU Impact Protection



80%

Safety Assist



77%

## SPECIFICATION

Tested Model	Mercedes-Benz X 250d 'POWER', LHD
Body Type	- 4 door double cab
Year Of Publication	2017
Kerb Weight	2252kg
VIN From Which Rating Applies	- all X-Class
Class	Pick-up

**✗** Rating Expired

## SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	●	●	✘
Belt pretensioner	●	●	●
Belt loadlimiter	●	●	●
Knee airbag	●	✘	✘
SIDE CRASH PROTECTION			
Side head airbag	●	●	●
Side chest airbag	●	●	✘
Side pelvis airbag	●	●	✘
	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	✘	●
Integrated CRS	—	✘	✘
Airbag cut-off switch	—	●	—
SAFETY ASSIST			
Seat Belt Reminder	●	●	●

## SAFETY EQUIPMENT (NEXT)

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	✘	●
Integrated CRS	—	✘	✘
Airbag cut-off switch	—	●	—
SAFETY ASSIST			
Seat Belt Reminder	●	●	●

OTHER SYSTEMS	
Active Bonnet (Hood)	✘
AEB Pedestrian	●
AEB City	●
AEB Inter-Urban	●
Speed Assistance System	●
Lane Assist System	●

**Note: Other equipment may be available on the vehicle but was not considered in the test year.**

- Fitted to the vehicle as standard   
 ● Fitted to the vehicle as part of the safety pack  
○ Not fitted to the test vehicle but available as option or as part of the safety pack   
 ✘ Not available   
 — Not applicable

**ADULT OCCUPANT**

Total 34.4 Pts / 90%

■ GOOD   
 ■ ADEQUATE   
 ■ MARGINAL   
 ■ WEAK   
 ■ POOR

**Frontal Offset Deformable Barrier** 6.3 Pts

Passenger                      Driver

**Frontal Full Width** 7.6 Pts

Rear Passenger                      Driver

**Whiplash Rear Impact** 1.7 Pts

Front seat                      Rear seat

**Lateral Impact** 15.9 Pts

Car                      Pole

**AEB City** 3.0

Performance: ■ Good



ADULT OCCUPANT

Total 34.4 Pts / 90%



GOOD



ADEQUATE



MARGINAL



WEAK



POOR

 ADULT OCCUPANT

Total 34.4 Pts / 90%

## Comments

The passenger compartment of the X-Class remained stable in the frontal offset test. Dummy readings showed good protection of the knees and femurs of the driver and passenger. Mercedes-Benz demonstrated that a similar level of protection would be provided to occupants of different sizes and to those sat in different positions. In the full-width rigid barrier test, protection of the driver and rear passenger was good or adequate for all critical parts of the body. In the side barrier impact, protection of all critical body areas was good. Even in the more severe side pole test, protection of the chest was adequate and that of other parts of the body was good. Tests on the front seats and head restraints demonstrated good protection against whiplash protection in the event of a rear-end collision. However, a geometric assessment of the rear seats indicated poor whiplash protection. The standard-fit autonomous emergency braking system scored maximum points in tests of its functionality at the low speeds, typical of city driving, at which many whiplash injuries are caused.

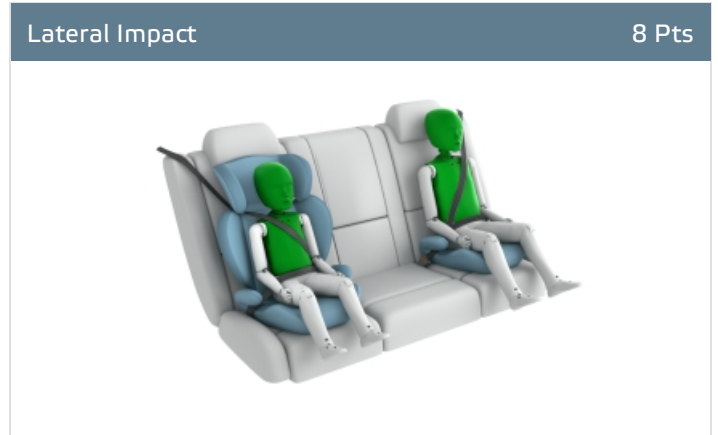
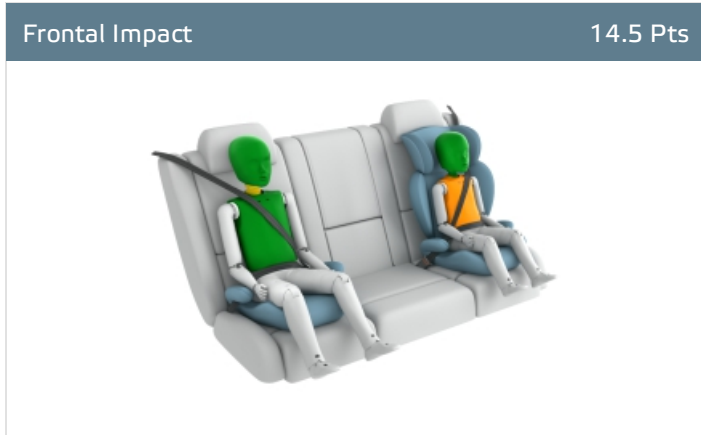
**CHILD OCCUPANT**

Total 43.0 Pts / 87%

■ GOOD   
 ■ ADEQUATE   
 ■ MARGINAL   
 ■ WEAK   
 ■ POOR

Crash Test Performance based on 6 & 10 year old children

22.5 Pts



Restraint for 6 year old child: *Mercedes KidFix*  
 Restraint for 10 year old child: *Mercedes KidFix*

**Safety Features**

9.0 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	✘	●	✘
i-Size	✘	●	✘
Integrated CRS	✘	✘	✘

● Fitted to test car as standard   
 ○ Not on test car but available as option   
 ✘ Not available

CRS Installation Check

11.5 Pts

● Install without problem    
 ● Install with care    
 ● Safety critical problem    
 ✖ Installation not allowed

■ i-Size CRS

Maxi Cosi 2way Pearl & 2wayFix (rearward) (iSize)



Maxi Cosi 2way Pearl & 2wayFix (forward) (iSize)



BeSafe iZi Kid X2 i-Size (iSize)



■ ISOFIX CRS

Maxi Cosi Cabriofix & FamilyFix (ISOFIX)



BeSafe iZi Kid X4 ISOfix (ISOFIX)



Britax Römer Duo Plus (ISOFIX)



Britax Römer KidFix XP (ISOFIX)





## CHILD OCCUPANT

Total 43.0 Pts / 87%

- Universal Belted CRS

Maxi Cosi Cabriofix (Belt)



Maxi Cosi Cabriofix &amp; EasyBase2 (Belt)



Britax Römer King II LS (Belt)



Britax Römer KidFix XP (Belt)



## Comments

In the frontal offset test, protection of the chest of the 6 year dummy was rated as marginal, based on chest decelerations. Otherwise, protection of the 6 and 10 year dummies was good or adequate. In the side barrier test, protection of both child dummies was good for all critical parts of the body. The X-Class has a system that automatically disables the front passenger airbag when a rearward-facing child restraint is used in that seating position. Mercedes-Benz showed that the system worked robustly and it was rewarded. The restraint used to assess Group I ISOFIX restraints required a multi-stage installation procedure. Otherwise, restraints could be properly installed and accommodated in the vehicle.

## CHILD OCCUPANT

Total 43.0 Pts / 87%

	Seat Position			
	Front	2nd row		
	PASSENGER	LEFT	CENTER	RIGHT
Maxi Cosi 2way Pearl & 2wayFix (rearward) (iSize)	—	●	—	●
Maxi Cosi 2way Pearl & 2wayFix (forward) (iSize)	—	●	—	●
BeSafe iZi Kid X2 i-Size (iSize)	—	●	—	●
Maxi Cosi Cabriofix & FamilyFix (ISOFIX)	—	●	—	●
BeSafe iZi Kid X4 ISOfix (ISOFIX)	—	●	—	●
Britax Römer Duo Plus (ISOFIX)	—	●	—	●
Britax Römer KidFix XP (ISOFIX)	—	●	—	●
Maxi Cosi Cabriofix (Belt)	●	●	●	●
Maxi Cosi Cabriofix & EasyBase2 (Belt)	●	●	✘	●
Britax Römer King II LS (Belt)	●	●	●	●
Britax Römer KidFix XP (Belt)	●	●	●	●

● Easy   ● Difficult   ● Safety critical   ✘ Not allowed   — Not available

## Comments

In the frontal offset test, protection of the chest of the 6 year dummy was rated as marginal, based on chest decelerations. Otherwise, protection of the 6 and 10 year dummies was good or adequate. In the side barrier test, protection of both child dummies was good for all critical parts of the body. The X-Class has a system that automatically disables the front passenger airbag when a rearward-facing child restraint is used in that seating position. Mercedes-Benz showed that the system worked robustly and it was rewarded. The restraint used to assess Group I ISOFIX restraints required a multi-stage installation procedure. Otherwise, restraints could be properly installed and accommodated in the vehicle.

**VRU IMPACT PROTECTION**

Total 34.0 Pts / 80%

■ GOOD    
 ■ ADEQUATE    
 ■ MARGINAL    
 ■ WEAK    
 ■ POOR

VRU Impact Protection	28.6 Pts						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Head Impact</td> <td style="text-align: right; padding: 5px;">16.7 Pts</td> </tr> <tr> <td style="padding: 5px;">Pelvis Impact</td> <td style="text-align: right; padding: 5px;">6.0 Pts</td> </tr> <tr> <td style="padding: 5px;">Leg Impact</td> <td style="text-align: right; padding: 5px;">5.9 Pts</td> </tr> </table>	Head Impact	16.7 Pts	Pelvis Impact	6.0 Pts	Leg Impact	5.9 Pts
Head Impact	16.7 Pts						
Pelvis Impact	6.0 Pts						
Leg Impact	5.9 Pts						

AEB Pedestrian	5.5 Pts	
System Name	Active Brake Assist	
Type	Auto-Brake with Forward Collision Warning	
Operational From	10 km/h	
Additional Information	Defaults on for every journey; operates above 40km/h and in low ambient light	
PERFORMANCE   <span style="color: green;">■</span>		
	Autobrake Function	
	<div style="width: 45%; text-align: center;">Avoidance</div> <div style="width: 45%; text-align: center;">Mitigation</div>	
Running Adult crossing from Farside	Collision avoided up to 50 km/h	Impact mitigated up to 60 km/h
Walking Adult crossing from Nearside -25%	Collision avoided up to 45 km/h	Impact mitigated up to 60 km/h
Walking Adult crossing from Nearside -75%	Collision avoided up to 60 km/h	Impact mitigated up to 60 km/h
Running Child from behind parked vehicles	Collision avoided up to 35 km/h	Impact mitigated up to 45 km/h

**Comments**

The protection provided by the bonnet to the head of a struck pedestrian was predominantly adequate or marginal. Protection of pedestrians' legs was good or adequate. The pedestrian-detecting autonomous emergency braking system performed well in Euro NCAP's tests, with collisions avoided or mitigated at most test speeds.



SAFETY ASSIST

Total 9.3 Pts / 77%

GOOD
  ADEQUATE
  MARGINAL
  WEAK
  POOR

Speed Assistance

2.0 Pts

System Name	SPEEDTRONIC
Speed Limit Information Function	Camera based, subsigns supported
Warning Function	Manually set
Speed Limitation Function	Manually set (accurate to 5km/h)

Seatbelt Reminder

3.0 Pts

Applies To	All seats		
	Driver Seat	Front Passenger(s)	Rear Passenger(s)
Warning			
Visual	●	●	●
Audible	●	●	●

● Pass
 ● Fail
 — Not available

Lane Support

1.7 Pts

System Name	Lane Keeping Assist
Type	Lane Departure Warning
Operational From	60 km/h
Warning	Haptic
PERFORMANCE	
LDW Confirmation Test	Pass

SAFETY ASSIST

Total 9.3 Pts / 77%

AEB Inter-Urban

2.6 Pts

System Name	Active Brake Assist
Type	Forward Collision Warning with Auto-Brake
Operational From	5 km/h
Additional Information	Default On

PERFORMANCE |

	Autobrake Function Only	Driver reacts to warning
Operational Speed	5-200 km/h	5-200 km/h
Approaching a stationary car	See AEB City	Crash avoided up to 70km/h. Crash speed reduced up to 80km/h.
Approaching a slower moving car	Crash avoided up to 70km/h.	Crash avoided up to 80km/h.
FOLLOWING A CAR AT SHORT DISTANCE		
Car in front brakes gently	Avoidance	Avoidance
Car in front brakes harshly	Mitigation	Mitigation
FOLLOWING A CAR AT LONG DISTANCE		
Car in front brakes gently	Avoidance	Avoidance
Car in front brakes harshly	Avoidance	Avoidance

Comments

The X-Class has a standard seatbelt reminder system for the front and rear seats. The speed assistance system identifies the local speed limit and provides this information to the driver who can then set the limiter accordingly. A lane assistance system warns the driver when the vehicle is drifting out of lane. The autonomous emergency braking system performed well at highway speeds, with collisions avoided or mitigated in all test scenarios.

## RATING VALIDITY

## Variants of Model Range

Body Type	Engine & Transmission	Model Name/Code	Drivetrain	Rating Applies	
				LHD	RHD
4 door double cab	2.3 diesel, automatic	X220d	4 x 2	✓	✓
4 door double cab	2.3 diesel, automatic	X220d 4Matic	4 x 4	✓	✓
4 door double cab	2.3 diesel, automatic	X250d	4 x 2	✓	✓
4 door double cab	2.3 diesel, automatic	X250d 4Matic*	4 x 4	✓	✓

\*Tested variant

## Annual Reviews and Facelifts

Date	Event	Outcome
November 2017	Rating Published	2017 ★★★★★ ✓
November 2018	Annual Review	2017 ★★★★★ ✓
November 2019	Annual Review	2017 ★★★★★ ✓