



# Mercedes-Benz E-Class/CLS-Class

Standard Safety Equipment

2016





### Adult Occupant







Safety Assist

Child Occupant

90%

Pedestrian



77%



62%

### **SPECIFICATION**

Tested Model	Mercedes-Benz E 220 d Avantgarde, LHD
Body Type	- 4 door saloon
Year Of Publication	2016
Kerb Weight	1680kg
VIN From Which Rating Applies	- all E-Class and CLS-Class variants
Class	Executive



Rating Expired

#### General comments

Data reviewed by Euro NCAP, together with additional tests, demonstrate that the rating of the E-Class also applies to the CLS-CLass.

## ADVANCED REWARDS

- 2011 Mercedes-Benz Attention Assist
- 2010 Mercedes-Benz PRE-SAFE®



# 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	•		0
Side pelvis airbag	•	•	_
CHILD PROTECTION			
lsofix/i-Size		×	
Integrated CRS	<del>_</del>	×	×
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	0

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

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O Not fitted to the test vehicle but available as option or as part of the safety pack X Not available — Not applicable



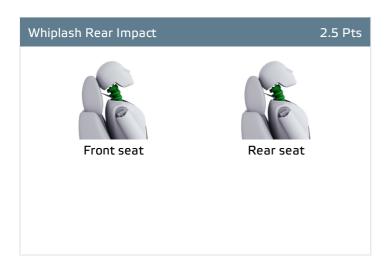


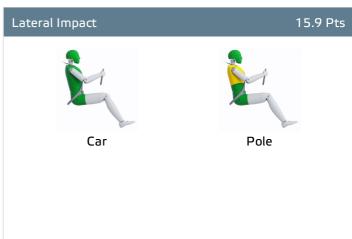
Total 36.3 Pts / 95%

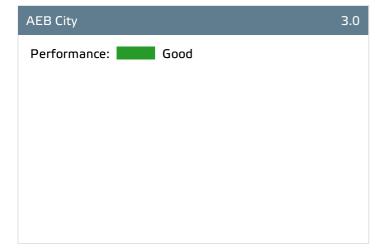




















Total 36.3 Pts / 95%

#### Comments

The E-Class is fitted as standard with Mercedes Benz's 'PRE SAFE" system which senses when an accident is about to occur and primes the restraint and protection systems in readiness for the collision. In Euro NCAP's frontal and side barrier impacts, the PRE-SAFE System was not activated. The passenger compartment of the E-Class remained stable in the offset frontal impact test. Dummy readings indicated good protection of the knees and femurs for both the driver and passenger dummies. 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 dummies was good for all critical body areas except the chest, protection of which was adequate for the driver and marginal for the rear passenger. In the side barrier test, the E-Class scored maximum points with good protection of all critical body areas. In the more severe side pole impact, protection of the chest was adequate and that of all other body areas was good. Tests showed that the front seats and head restraints provided good protection against whiplash injury in the event of a rear-end collision, and a geometric assessment of the rear seats also indicated good protection. Additional protection against whiplash injuries is provided by the autonomous emergency braking system which operates at the low speeds typical of city driving. Impact against a stationary car was avoided at all test speeds and the E-Class scored maximum points for this part of its assessment.

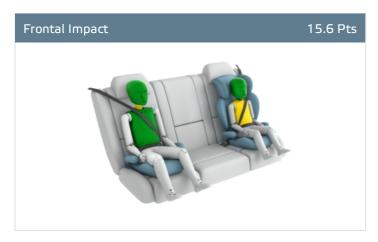


Total 44.6 Pts / 90%

GOOD ADEQUATE MARGINAL WEAK POOR

Crash Test Performance based on 6 & 10 year old children

23.6 Pts





Restraint for 6 year old child: *Mercedes-BenzKidfix XP (manufactured by Britax Römer)*Restraint for 10 year old child: *Mercedes-BenzKidfix XP (manufactured by Britax Römer)* 

Safety Features 9.0 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	×	•	×
i-Size	×	•	×
Integrated CRS	×	×	×

Fitted to test car as standard

O Not on test car but available as option

🗶 Not available



CRS Installation Check 12.0 Pts



#### i-Size CRS







#### ISOFIX CRS







# Britax Römer KidFix XP (ISOFIX)





Total 44.6 Pts / 90%

#### Universal Belted CRS











Total 44.6 Pts / 90%

		Seat Position				
	Front	Front 2nd row				
	PASSENGER	LEFT	CENTER	RIGHT		
Maxi Cosi 2way Pearl & 2wayFix (rearward) (iSize)	_	•	_	•		
Maxi Cosi 2way Pearl & 2wayFix (forward) (iSize)	_	•	_	•		
BeSafe iZi Kid X1 i-Size (iSize)	_	•	_	•		
Maxi Cosi Cabriofix & FamilyFix (ISOFIX)	_	•	_	•		
BeSafe iZi Kid X3 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)	•	•	•	•		

Install without problem

Install with care

Safety critical problem

🗶 Installation not allowed

— Not available

#### Comments

In the offset frontal test, protection of the 6 and 10 year dummies was good or adequate. In the side barrier test, protection was good for all critical body areas for both dummies. The E-Class has an automatic airbag deactivation system which switches off the front passenger airbag when a rearward-facing child restraint is used in that seating position but switches it on again when the seat is occupied by a large child or an adult. All of the restraint types for which the E-Class is designed could be properly installed and accommodated in the car.





Total 32.5 Pts / 77%

GOOD ADEQUATE MARGINAL WEAK POOR

Pedestrian

Head Impact

Pelvis Impact

Leg Impact

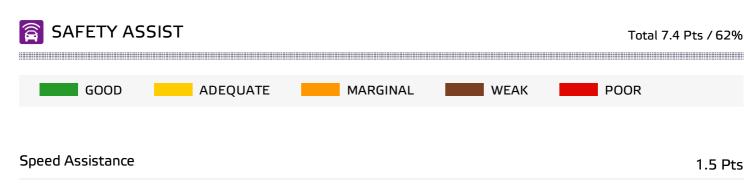
6.0 Pts

AEB Pedestrian		4.2 Pts			
System Name	Active Brake Assist				
Туре	Auto-Brake with Forward Collision Warning				
Operational From	7 km/h				
Additional Information	Defaults on for every journey; operates in low ambient light				
PERFORMANCE					
	Autobrake	Function			
	Avoidance	Mitigation			
Running Adult crossing from Farside	Collision avoided up to 20 km/h	Impact mitigated up to 45 km/h			
Running Adult crossing from Farside  Walking Adult crossing from Nearside -25%	Collision avoided up to 20 km/h Collision avoided up to 40 km/h	Impact mitigated up to 45 km/h Impact mitigated up to 45 km/h			
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#### Comments

The E-Class has an active bonnet. Sensors in the bumper detect when a pedestrian has been struck and actuators lift the bonnet to provide greater clearance between the bonnet surface and the hard structures in the engine compartment. Mercedes-Benz showed that the system worked over a range of speeds and for a variety of pedestrian statures, so the system was tested in the deployed (raised) position. Good results were recorded over almost the entire bonnet surface, showing a high level of protection to the head of a struck pedestrian. The bumper also offered good protection to pedestrians' legs. However, protection of the pelvis was poor in all tested areas. The standard-fit autonomous emergency braking system is capable of detecting pedestrians and showed good results in Euro NCAP's tests of this functionality.





System Name	SPEEDTRONIC Cruise Control with Variable Speed Limiter
Warning Function	Active braking (no warning necessary)
Speed Limitation Function	Manually set (accurate to 5km/h)

Seatbelt Reminder 3.0 Pts

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

Pass Fail — Not available

Lane Support 0 Pts





Total 7.4 Pts / 62%

AEB Inter-Urban 2.9 Pts

System Name	Active Brake Assist					
Туре	Forward Collision Warning with Auto-Brake					
Operational From	7 km/h					
Additional Information	Default On; Supplementary Warning; Seatbelt Activation					
PERFORMANCE						
	Autobrake Function Only	Driver reacts to warning				
Operational Speed	7-200 km/h	7-250 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.				
FOI	LLOWING A CAR AT SHORT DISTANCE					
Car in front brakes gently	Avoidance	Avoidance				
Car in front brakes harshly	Mitigation Avoidance					
FOLLOWING A CAR AT LONG DISTANCE						
Car in front brakes gently	Avoidance	Avoidance				
Car in front brakes harshly	Avoidance	Avoidance				

#### Comments

The E-Class has a standard seatbelt reminder system for the front and rear seats. The car is also equipped with a standard driver-set speed limitation system. The autonomous emergency braking system demonstrated good results in Euro NCAP's tests of its performance at highway speeds.



# **RATING VALIDITY**

# Variants of Model Range

#### Annual Reviews and Facelifts

Date	Event	Outcome	
September 2016	Rating Published	2016 🖈 🖈 🛧 🛧	✓
September 2017	Annual Review	2016 🖈 🖈 🛧 ★	✓
December 2018	Inclusions of CLS-CLass	2016 🖈 🖈 🛧 ★	✓
September 2019	Annual Review	2016 🖈 🖈 🛧 ★	✓
September 2020	Facelift Review	2016 🗙 🗙 🗙 🗙	✓
September 2021	Annual Review	2016 🖈 🖈 🛧 ★	✓