

smart fortwo

smart fortwo 999cc petrol 'passion', LHD

2014



ADULT OCCUPANT



CHILD OCCUPANT



PEDESTRIAN



SAFETY ASSIST

DETAILS OF TESTED CAR

SPECIFICATIONS

Tested model	smart fortwo 999cc petrol 'passion', LHD
Body type	3 door hatchback
Year of publication	2014
Kerb weight	885kg
VIN from which rating applies	applies to all smart fortwo of the specification tested

SAFETY EQUIPMENT

Frontal airbags	Driver (Single Stage), Passenger (Single Stage)
Pre-tensioners	Driver (single), Passenger (single)
Load-limiters	Driver, Passenger
Knee airbags	Driver
Side airbags	Head (front only), Thorax (front only)
Front head restraints	Passive
Passenger airbag switch	Manual switch
ISOFIX anchorages	Front passenger seat
Integrated child restraint	None
Active Pedestrian Protection	None,
Seatbelt Reminder	Driver, Passenger
Electronic Stability Control	ESP, Standard, Always On
Speed Assistance Systems	Driver-set speed limitation, Optional (meeting fitment requirements)
Lane Support	Lane departure warning, Optional (not meeting fitment requirements)
Autonomous Braking	None, Not Available
Other	'Side Wind Assist'; 'Rear View Camera' (optional)

Safety equipment is standard across the model range unless stated otherwise

ADULT OCCUPANT

Total 31 pts | 82%

CRASH TEST PERFORMANCE

FRONT OFFSET

14,7 pts



Driver



Passenger

SIDE CAR

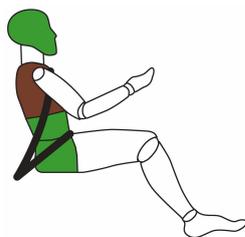
7,5 pts

SIDE POLE

6,5 pts



Side car



Side pole

FRONT OFFSET

HEAD

Driver airbag contact	stable
Passenger airbag contact	stable

CHEST

Passenger compartment	stable
Windscreen Pillar rearward	9mm
Steering wheel rearward	none
Steering wheel upward	15mm
Chest contact with steering wheel	none

UPPER LEGS, KNEES AND PELVIS

Stiff structures in dashboard	none
Concentrated loads on knees	none

LOWER LEGS AND FEET

Footwell Collapse	none
Rearward pedal movement	Accelerator - 13mm
Upward pedal movement	Brake - 34mm

SIDE

Head protection airbag	Yes
Chest protection airbag	Yes

WHIPLASH PROTECTION

FRONT SEATS

2,6 pts



Front seats

HEAD RESTRAINT

Seat description	Standard fabric, 2 way manual
Head restraint type	Passive
Front geometric assessment	1,9 pts

TESTS

- High severity	2,5 pts
- Medium severity	2,4 pts
- Low severity	2,6 pts

AEB CITY

0 pts

System name	Not applicable
Fitment	Not available



CHILD OCCUPANT

Total 17 pts | 80%

CHILD SAFETY FEATURES AND CRS INSTALLATION CHECK



Isofix

Safety features score	5 pts
Installation check score	12 pts

<i>Pass</i>	Install without problem
<i>Partial Fail</i>	Install with care
<i>Fail</i>	Safety critical problem
<i>Exempt</i>	Installation not allowed

	SEAT POSITION							
	FRONT		2nd ROW			3rd ROW		
	CENTER	RIGHT	LEFT	CENTER	RIGHT	LEFT	CENTER	RIGHT
Maxi Cosi Cabriofix (Seatbelt)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Römer King Plus (Seatbelt)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Römer Duo Plus (ISOFIX)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Römer KidFix (Seatbelt)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Maxi Cosi Cabriofix and EasyFix (Seatbelt)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Maxi Cosi Cabriofix and EasyFix (ISOFIX)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
BeSafe iZi Kid X3 ISOfix (ISOFIX)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Maxi Cosi Pearl and Familyfix (ISOFIX)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Römer KidFix (ISOFIX)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Römer BabySafe (Seatbelt)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A
Römer Duo Plus (ISOFIX)	N/A	Pass	N/A	N/A	N/A	N/A	N/A	N/A

SAFETY ASSIST

Total 7 pts | 56%

SPEED ASSISTANCE SYSTEM 1,3 pts

Optional (meeting fitment requirements)	
Speed Information	Not applicable
Speed Assistance (manual)	Pass

ELECTRONIC STABILITY CONTROL (ESC) 3 pts

- ESP	Meets requirements
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SEATBELT REMINDER 3 pts

- driver and passenger	Pass
- rear	Not applicable

LANE SUPPORT SYSTEMS 0 pts

Optional (not meeting fitment requirements)	
Lane departure warning	

PEDESTRIAN

Total 20 pts | 56%



HEAD	13,3 pts
PELVIS	1,2 pts
LEG	6 pts



COMMENTS

Adult occupant

The passenger compartment of the fortwo remained stable in the frontal impact. Dummy readings indicated good protection of the knees and femurs of both the driver and passenger. smart showed that a similar level of protection would be provided to occupants of different sizes and to those sat in different positions. In the side barrier test, protection of all body regions was good apart from the chest, protection of which was adequate. However, in the side pole test, dummy readings of rib compression revealed weak protection against chest injury. Euro NCAP observed also that the pole impactor came extremely close to striking the dummy's head. While the dummy readings did not indicate a head impact in this test, Euro NCAP has concerns over the robustness of protection provided by the current seat-mounted head/thorax airbag. Daimler have developed an optimised solution which will be introduced into production at the end of March 2015. The seats and head restraints provided good protection against whiplash injury in the event of a rear-end collision.

Child occupant

As the fortwo is a two-seater, no dynamic tests were performed and the rating is based on the ease with which different restraints can be accommodated and on the provisions made in the vehicle for safe transportation of children. All of the child restraints which Euro NCAP uses to represent the broad range of types available could be properly installed and accommodated in the car. The passenger airbag can be disabled to allow a rearward-facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded.

Pedestrian

The bumper provided good protection to pedestrians' legs and scored maximum points. However, the protection offered to a pedestrian's pelvis by the front edge of the bonnet was predominantly poor. The bonnet surface offered predominantly marginal or weak levels of protection to a pedestrian's head, and poor results were recorded on the stiff windscreen pillars.

Safety assist

The fortwo has electronic stability control as standard equipment, together with a seatbelt reminder covering both seats. A driver-set speed limiter is available as an option and is expected to be fitted to most cars sold so was included in the assessment and met Euro NCAP's requirements for systems of this type. A lane departure warning system is also an option but it is expected that most cars will not be fitted with it so it was excluded from the assessment. An autonomous emergency braking system is not available on the fortwo.