# **Crash Test Results**

**New Car Safety** 

FIAT BRAVO/RITMO with ESC (LHD)

2008 on Front+side+head airbags



#### Occupant Protection Score 32.50 out of 37

Variant: 5 door hatch Eng: 1.9 litre

Kerb weight: 1300 kg Category: CAR - SMALL Vehicles built: 2007 Tested by Euro NCAP

**Important note**: The *left-hand-drive* European model was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

### **Model History and Safety Features**

The tested model of Fiat Bravo was introduced in New Zealand during 2007. This model is known as the Ritmo in Australia.

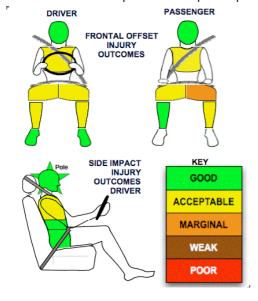
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD), emergency brake assist and electronic stability control (ESC) are also standard in New Zealand. ESC is optional on the Emotion variant in Australia and this 5-star rating only applies where ESC is fitted. The Emotion without ESC is a 4-star rating. Intelligent seat belt reminders are fitted to both front seats.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

# **OCCUPANT PROTECTION: 5 Stars**

The Bravo scored 12.77 out of 16 in the offset crash test. The passenger compartment held it shape well. Protection from serious leg injury was marginal for the passenger.

The vehicle scored 15.73 out of 16 in the side impact crash test and a further two points in the optional pole test.





Offset crash test at 64km/h (front hubcap dislodged)

#### FRONTAL OFFSET CRASH TEST (v4.1)

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.29 pts, upper legs 2.29 pts, lower legs 3.20 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved forwards by 78mm. The clutch pedal moved downwards 4mm. The steering wheel hub moved 16mm forward and 3 mm upward. The front ("A") pillar moved 6 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with high manual effort.

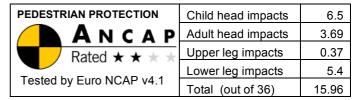
The airbag cushioned the head of the driver and contact was stable. Steering column components and dash were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag. Glovebox components were a hazard for the passenger's knees.

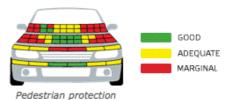
#### SIDE IMPACT CRASH TEST (v4.1)

Body region scores out of 4 points each: Head 4 pts, chest 3.73 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for an optional pole impact test since it had head-protecting side airbags. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

#### PEDESTRIAN PROTECTION: 2 Stars





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# TECHNICAL DATA - FIAT BRAVO/RITMO - 2007 on

## **INJURY MEASUREMENTS**

Body region		Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
		Driver	Passenger	Driver
Head HIC		388	241	25
Acceleration (g for 3ms)		48.3	41.2	16.5
Neck - Shear (kN)		0.54	0.33	-
Tension (kN)		2.03	0.67	-
Extension (Nm)		10.0	10.2	-
Chest Accln (g for 3ms)		-	-	-
Compression (mm)		27.07	22.26	14.24
Viscous criterion (m/s)		0.12	0.09	0.09
Abdomen - Force (kN)		-	-	0.500
Pelvis - Force (kN)		-	-	2.240
Upper legs Force (kN)	Left	0.38	1.61	
	Right	1.44	0.55	
Knee displ (mm)	Left	1.90	7.60	
	Right	2.90	0.40	
Lower legs Force (kN)	Left	2.08	2.26	
	Right	1.88	1.88	
Index (Upper/Low)	Left	0.43 /0.25	0.37 /0.20	
	Right	0.30 /0.58	0.36/0.18	

## **Bonus points (maximum 5)**

Pole Test: 2 pts

Seat belt reminders: 2 (see table below for details)

# Modifiers - deductions from offset test scores

Head No deduction
Chest No deduction

Upper leg Variable loading 1 pt deduction Left & Right

for driver and passenger

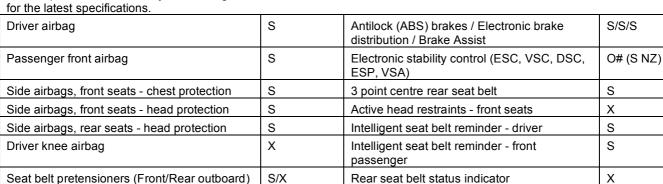
Lower leg No deduction Foot score Score 4 points

## Modifiers - deductions from side impact test scores

Chest Backplate loading 0.27pt deduction

## Safety features

These specifications are subject to change. Please check with manufacturer



Key:

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

# ESC required by ANCAP for 5 star rating from 2008

