

Crash Tests

New Car Safety

Hyundai i30

03/2007 on 03/2008 - Frontal+Side+Head

Overall Evaluation



Overall Score

Variant: GLS 5dr hatch

31.54 out of 37

Engine: 1.6 litre

Category: Small Car

Safety equipment, as tested, not standard on all variants.

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 Hyundai i30 was introduced in Australia during 2007. Dual front airbags and antilock brakes (ABS) with electronic brake distribution (EBD) are standard on all variants. Side airbags, head-protecting side curtains and Electronic stability control (ESC) are standard on SLX and Elite variants and are optional on the SX variant. 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.

Overall Evaluation: 4

4 Stars. The i30 scored 11.97 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was weak for the driver.

The vehicle scored 15.57 out of 16 in the side impact crash test. There was a slight risk of serious abdomen injury for the driver. A further two points were earned in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.04 pts, upper legs 1.17 pts, lower legs 3.76 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved 97mm rearward and 25mm upwards. The steering wheel hub moved 1mm forward, 13mm downward and 4mm sideways. The front ("A") pillar moved 16 mm rearwards. All doors remained closed during the crash. High effort was required to open the driver's door after the crash.

The airbag cushioned the head of the driver and contact was stable. The side curtain also deployed. Dash components were a potential source of injury for the driver and passenger knees. The passenger's head was cushioned by the airbag.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 3.57 pts, pelvis 4 pts.

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

Pedestrian rating (v4.1)



Child head impacts	8.73
Adult head impacts	Zero
Upper leg impacts	Zero
Lower leg impacts	4.84
Total (out of 36)	13.57

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test aa 50km/h (v4.1) Driver
	Driver	Passn	
Head			
- HIC	156	200	48
- Acceleration (g for 3ms)	33	36.4	30.7
Neck			
- Shear (kN)	0.4	0.43	
- Tension (kN)	1.12	0.79	
- Extension (Nm)	7.9	24.1	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	28.75	19.44	19.88
- Viscous Criterion (m/s)	0.12	0.06	0.13
Abdomen			
- Force (kN)			1.16
Pelvis			
- Force (kN)			1.01
Upper Legs Force (kN)			
- Left	1.86	2.85	
- Right	1.89	0.21	
Knee Displacement (kN)			
- Left	0.1	0	
- Right	7.87	0.4	
Lower Legs Force (kN)			
- Left	0.69	2.36	
- Right	1.27	1.61	
Index (Upper Lower)			
- Left	0.17 0.16	0.41 0.23	
- Right	0.36 0.19	0.39 0.3	

Bonus points (maximum 5)

Pole Test: 2 points

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & Conc. loading
Lower leg	No deduction
Foot score	4 points
Structure	No deduction

Modifiers for side impact test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	No deduction
Structure	No deduction



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