

Crash Tests

New Car Safety

Hyundai i30

06/2008 on 09/2009 - Dual Frontal

Overall Evaluation



Overall Score

Variant: GLS 5 dr hatch

27.1 out of 37

Engine: 1.6 litre

Category: Small Car

Without Side Curtain Airbags.

The left-hand-drive European model was offset 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. Australasian i30s built from June 2008 have an upgraded knee impact zone and this assessment applies to the upgraded model without inflatable side curtains.

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 all New Zealand variants and the Australian 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 12.97 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was marginal for the driver. The vehicle scored 12.13 out of 16 in the side impact crash test. There was a moderate risk of serious chest and abdomen injury for the driver.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.04 pts, upper legs 2.17 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 2 pts, abdomen 2.13 pts, pelvis 4 pts.

The vehicle was not eligible for an optional pole impact test, since it did not have head-protecting side airbags. A separate ANCAP rating is available for the curtain-equipped i30.

Pedestrian rating (v4.1)



Protection for the head of a struck child was predominantly fair. However, protection of adults' heads was poor, as was the protection offered by the front edge of the bonnet.

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	51
- Acceleration (g for 3ms)	33	36.4	20.5
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	10.1
- Viscous Criterion (m/s)	0.12	0.06	0.08
Abdomen			
- Force (kN)			1.7
Pelvis			
- Force (kN)			2.07
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: Not eligible no head-protecting side airbags

Seat Belt Reminders: 2

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable contact
Lower leg	No deduction
Foot score	4
Structure	

Modifiers for side impact test scores

Head		
Chest	T12 loads	2 pt deduction
Upper leg		
Lower leg		
Foot score		
Structure		



Version 1, Published on: 4/06/2008
Published by
New Car Assessment Program
PO Box 1555
Canberra ACT Australia 2601