Crash Tests

New Car Safety

Hyundai i30

03/2009 on 02/2012 - Frontal+Side+Head

Overall Evaluation

Overall Score 32.54 out of 37

Variant: cw LHD

32.54 out of 37 Engine: 1.6 litre Category: Small Car

Safety Equipment as tested, not standard on all variants.

The left-hand-drive European hatch 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. Hyundai provided evidence to ANCAP that this wagon variant of the i30 can be expected to provide comparable protection to the hatch tested by Euro NCAP.

Model History and Safety Features

The Hyundai i30cw was introduced in Australia during 2009.

Dual front airbags, antilock brakes (ABS) with electronic brake distribution (EBD) and Electronic Stability Control (ESC) are standard on all variants. Side airbags and curtains are standard on the SLX and optional on the SX variants. 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: 5

5 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 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. This 5-star rating only applies where side curtains are fitted. Without these the i30cw is a 4-star rating.

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 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. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

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	Offset Crash Test at 64km/h		Side Impact
'How the tests are done'	(v4.1)		Crash Test aa
			50km/h (v4.1)
	Driver	Passn	Driver
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 pts Seat Belt Reminders: 2

Modifiers for offset test scores Head

Chest
Upper leg Variable contact

Lower leg

No deduction No deduction 1 pt deduction D L&R, P L&R No deduction 4 points

Modifiers for side impact test scores

Head Chest Upper leg Lower leg Foot score Structure

Foot score

Structure

No deduction



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