

# ANCAP Safety Rating: HYUNDAI i40 (February 2015 - onwards)



Frontal offset test at 64km/h

## This ANCAP safety rating applies to:

Make / Model	Hyundai i40
Year Range	February 2015 - onwards
Variant(s)*	All variants
Vehicle Type	Medium Car

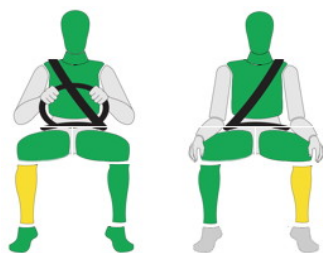
The updated Hyundai i40 was introduced in Australia and New Zealand in June 2015. This ANCAP safety rating applies to all variants (sedan and wagon) built from February 2015.

Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Electronic Brakeforce Distribution (EBD) and Emergency Brake Assist (EBA) are also standard. Advanced seat belt reminders are fitted to both front seats. The outboard rear seats have chest-protecting side airbags but there are no seat belt reminders.

## Injury Outcomes.

### Frontal Offset

Driver Passenger



### Side Impact & Pole#



### Whiplash Protection

Driver



# Head protection only.

## Test Results Summary.

Airbags	Dual Frontal, Side, Head, Knee
Frontal Offset Test	14.18 (out of 16)
Side Impact Test	16.00 (out of 16)
Pole Test	2 (out of 2)
Whiplash Protection	Good
Pedestrian Protection	Marginal
ESC	Standard
Seat Belt Reminders	2.0 (out of 3)
Overall Score	34.18 (out of 37)
ANCAP Safety Rating	★★★★★
Rating Year^	2013

## Occupant Protection.

### Frontal Offset Test

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.41 points
Upper legs:	3.50 points
Lower legs:	3.27 points

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled. Driver and passenger contact with the airbags was stable. Despite the knee airbag, Euro NCAP found that the steering column components were a potential source of injury for the driver's knees. All doors remained closed during the crash.

### Side Impact Test

Each body region is scored out of 4 points

Head:	4.00 points
Chest:	4.00 points
Abdomen:	4.00 points
Pelvis:	4.00 points

Good protection was provided for the driver in the side impact test. The side airbags performed well.

### Pole Test

Scored out of 2 points

Score:	2.00 points
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The vehicle was eligible for a side pole test because it has side curtain airbags. The vehicle scored the maximum 2 points for head protection in this test.

### Whiplash Protection Test

Whiplash protection is assessed to the RCAR Protocol

Geometric test:	Good
Dynamic test:	Good
Overall whiplash rating:	Good

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## Pedestrian Protection.

### Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 8.06 points  
Upper leg impacts: 1.47 points  
Lower leg impacts: 6.00 points

This vehicle scored 15.53 out of 36 points (Marginal). The protection offered by the bonnet was predominantly poor or marginal. The front edge of the bonnet also offered mostly poor or marginal protection to pedestrians. Only the bumper scored maximum points, offering good protection to pedestrians' legs.

(Tested by Euro NCAP v5.3)



## Score Deductions.

### Deductions from frontal offset test scores

Head / neck: No deduction  
Chest: No deduction  
Upper legs: -0.5 points (left & right knee hazard for driver)  
Lower legs: No deduction

### Deductions from side impact test score

Chest: No deduction

### Deductions from pole test score

Head: No deduction

## Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at [ancap.com.au](http://ancap.com.au).

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	X
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 <sup>nd</sup> row seats)	X
Airbag - Front (driver)	S
Airbag - Front (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 <sup>nd</sup> row seats)	S
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 <sup>nd</sup> row seats)	S
Airbag - Knee (driver)	S
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	X
Antilock braking system (ABS)	S
Automatic headlights	S
Autonomous emergency braking (AEB)	X
Daytime running lights (DRL)	S
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal	S
Hill launch assist	S
Lane support system (LSS)	V
Reversing collision avoidance	S
Manual speed limiter	S
Tyre pressure monitoring system (TPMS)	X

These specifications are subject to change. Please check with the manufacturer for the latest specifications.

**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.  
**E** = Available in Europe / USA but not available on any Australasian variant.

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## Injury Values & Measurements.

Body Region	Frontal offset test at 64 km/h (v5.3)		Side impact test at 50 km/h (v5.3)
	Driver	Passenger	Driver
<b>Head</b>			
HIC	382.00	229.00	28.00
Acceleration (g for 3ms)	44.80	36.60	16.50
<b>Neck</b>			
Shear (kN)	0.27	0.43	-
Tension (kN)	1.64	1.09	-
Extension (Nm)	14.00	20.90	-
<b>Chest</b>			
Acceleration (g for 3ms)	-	-	-
Compression (mm)	26.15	15.99	11.28
Viscous criterion (m/s)	0.08	0.05	0.04
<b>Abdomen</b>			
Force (kN)	-	-	0.46
<b>Pelvis</b>			
Force (kN)	-	-	1.22
<b>Upper legs</b>			
Femur force left (kN)	0.61	2.10	
Femur force right (kN)	1.74	0.50	
Knee displacement left (mm)	1.10	1.20	
Knee displacement right (mm)	1.70	0.20	
<b>Lower legs</b>			
Force left (kN)	1.90	2.71	
Force right (kN)	3.09	1.88	
Index (upper / lower) left	0.26 / 0.41	0.28 / 0.31	
Index (upper / lower) right	0.37 / 0.42	0.41 / 0.28	
<b>Intrusion Measurements*</b>			
<b>Steering column</b>			
Forward (mm)	34		
Downward (mm)	37		
Sideways (mm)	5		
<b>Pedals</b>			
Brake - rearward (mm)	65		
Brake - upward (mm)	14		
<b>A-Pillar</b>			
Rearward (mm)	11		

\* ANCAP safety ratings do not automatically extend to variants that have different body styles, engine configurations, driven wheels or occupant restraint systems (e.g. fewer airbags). In these cases, ANCAP considers technical evidence submitted by manufacturers before deciding on extending a rating to additional variants of a model. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

### Assessment Details.

Tested Make / Model	Hundai i40 GLS LHS
Tested Vehicle(s) Built	2011
Tested Body Type	Wagon
Tested Vehicle Kerb Weight	1570 kg
Tested Vehicle Engine	1.7 diesel
Tested By	Euro NCAP
Assessed By	ANCAP
Document Reference	i40_15
Document Created / Revised	21 May 2015
Rating Published	May 2015
Rating Updated	n/a

