

# Lexus IS 300h

Lexus IS 300h 2.5 Hybrid Drive, 'Executive Plus', RHD

2013 ★★★★★



91%  
ADULT OCCUPANT

85%  
CHILD OCCUPANT

80%  
PEDESTRIAN

66%  
SAFETY ASSIST

## ADULT OCCUPANT

Total 33 pts | 91%

### FRONTAL IMPACT

14 pts



Driver



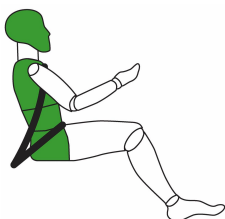
Passenger

### SIDE IMPACT CAR

8 pts

### SIDE IMPACT POLE

7,5 pts



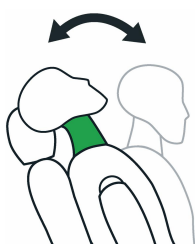
Car



Pole

### REAR IMPACT (WHIPLASH)

3,5 pts



- GOOD
- ADEQUATE
- MARGINAL
- WEAK
- POOR

### FRONTAL IMPACT

#### HEAD

Driver airbag contact	stable
Passenger airbag contact	stable

#### CHEST

Passenger compartment	stable
Windscreen Pillar rearward	11mm
Steering wheel rearward	none
Steering wheel upward	none
Chest contact with steering wheel	none

#### UPPER LEGS, KNEES AND PELVIS

Stiff structures in dashboard	none
Concentrated loads on knees	none

#### LOWER LEGS AND FEET

Footwell Collapse	none
Rearward pedal movement	Brake - 66mm
Upward pedal movement	none

### SIDE IMPACT

Head protection airbag	Yes
Chest protection airbag	Yes

### WHIPLASH

Seat description	Standard leather 8 way electric
Head restraint type	Passive
Geometric assessment	1 pts

#### TESTS

- High severity	2,4 pts
- Medium severity	2,7 pts
- Low severity	2,6 pts

# TEST RESULTS

## CHILD OCCUPANT

Total 42 pts | 85%

### CRASH TEST PERFORMANCE

#### 18 MONTH OLD CHILD

**Restraint** Lexus MINI  
**Facing** rearward facing  
**Installation** ISOFIX and Supportleg



PERFORMANCE **12 pts**

#### FRONTAL IMPACT

**Head forward movement** protected  
**Head acceleration** good  
**Chest load** good

#### SIDE IMPACT

**Head containment** protected  
**Head acceleration** good

#### 3 YEAR OLD CHILD

**Restraint** Lexus MIDI  
**Facing** forward facing  
**Installation** ISOFIX and Supportleg



PERFORMANCE **12 pts**

#### FRONTAL IMPACT

**Head forward movement** protected  
**Head acceleration** good  
**Chest load** good

#### SIDE IMPACT

**Head containment** protected  
**Head acceleration** good

### CHILD SAFETY FEATURES AND CRS INSTALLATION CHECK



Isifix

**Safety features score** **6 pts**  
**Installation check score** **12 pts**

**Pass** Install without problem  
**Partial Fail** Install with care  
**Fail** Safety critical problem  
**Exempt** Installation not allowed

	SEAT POSITION							
	FRONT		2nd ROW			3rd ROW		
	CENTER	RIGHT	LEFT	CENTER	RIGHT	LEFT	CENTER	RIGHT
Maxi Cosi Cabriofix (Seatbelt)	N/A	Pass	Pass	Exempt	Pass	N/A	N/A	N/A
Römer King Plus (Seatbelt)	N/A	Pass	Pass	Exempt	Pass	N/A	N/A	N/A
Römer Duo Plus (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A
Römer KidFix (Seatbelt)	N/A	Pass	Pass	Exempt	Pass	N/A	N/A	N/A
Maxi Cosi Cabriofix and EasyFix (Seatbelt)	N/A	Pass	Pass	Exempt	Pass	N/A	N/A	N/A
Maxi Cosi Cabriofix and EasyFix (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A
BeSafe iZi Kid X3 ISOfix (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A
Maxi Cosi Pearl and Familyfix (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A
Römer KidFix (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A
Takata Mini (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A
Takata Midi (ISOFIX)	N/A	Exempt	Pass	Exempt	Pass	N/A	N/A	N/A

**PEDESTRIAN**

Total 29 pts | 80%



- GOOD
- ADEQUATE
- MARGINAL
- WEAK
- POOR

<b>HEAD</b>	16,9 pts
<b>PELVIS</b>	6 pts
<b>LEG</b>	6 pts

**SAFETY ASSIST**

Total 6 pts | 66%

**SPEED ASSISTANCE SYSTEM** 0 pts

**ELECTRONIC STABILITY CONTROL (ESC)** 3 pts

- VSC Pass

Yaw rate ratio (1.00s) 1,96 %

Yaw rate ratio (1.75s) 1,65 %

Lateral displacement (1.07s) 3,17 m

**SEATBELT REMINDER** 3 pts

- driver and passenger Pass

- rear Pass

## DETAILS OF TESTED CAR

### SPECIFICATIONS

<b>Tested model</b>	Lexus IS 300h 2.5 Hybrid Drive, 'Executive Plus', RHD
<b>Body type</b>	4 door saloon
<b>Year of publication</b>	2013
<b>Kerb weight</b>	1670kg
<b>VIN from which rating applies</b>	applies to all IS 300h of the specification tested

### SAFETY EQUIPMENT

Front seatbelt pretensioners

Front seatbelt load limiters

Driver frontal airbag

Front passenger frontal airbag

Side body airbags

Side head airbags

Driver knee airbag

Electronic Stability Control

Seatbelt Reminder

## COMMENTS

### Adult occupant

The passenger compartment of the IS 300h remained stable in the frontal impact. Dummy readings indicated good protection of the knees and femurs of both the front seat occupants. Lexus showed that a similar level of protection would be provided to occupants of different sizes and to those sat in different positions. The car scored maximum points in the side barrier test, providing good protection to all parts of the body. Even in the more severe side pole test, protection of the chest was adequate and that of other body regions was good. The seat and head restraint provided good protection against whiplash injuries in the event of a rear-end collision.

### Child occupant

Based on dummy readings and measurements in the dynamic tests, the IS 300h scored maximum points for the protection it provided to both the 18 month and 3 year infants. In the frontal impact, forward movement of the head of the 3 year dummy, sat in a forward-facing restraint, was not excessive. In the side impact, both dummies were properly contained by the protective shells of their restraints, minimising the likelihood of dangerous head contact with the car interior. The front passenger airbag can be deactivated to allow a rearward-facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded. All categories of child restraints for which the car is designed could be safely installed in the vehicle.

### Pedestrian

The IS 300h has an 'active' bonnet which provides additional head protection for struck pedestrians. Sensors in the bumper detect when a pedestrian has been struck and actuators lift the bonnet to provide greater clearance to the hard structures underneath. Lexus showed that the system could detect pedestrians of different statures over a range of speeds. Accordingly, the car was tested with the bonnet in the deployed position and provided good or adequate levels of protection over most of the bonnet surface. The bumper and the leading edge of the bonnet also performed well, the car scoring maximum points for the protection it offered to the legs and pelvis of a struck pedestrian.

### Safety assist

Electronic stability control is standard equipment on the IS 300h and met Euro NCAP's test requirements. A seatbelt reminder is standard for the front and rear seats. The IS 300h does not have a speed limitation device.