

EUROPEAN NEW CAR  
 ASSESSMENT PROGRAMME  
**Opel / Vauxhall Astra**



**2009**

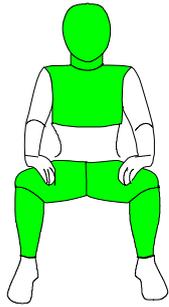
	Adult Occupant	Child Occupant	Pedestrian	Safety Assist	
Score	34.096	41.121	16.425	5.000	
Max Points available	36	49	36	7	
Normalised Score (%)	<b>95</b>	<b>84</b>	<b>46</b>	<b>71</b>	
Weighting (%)	50	20	20	10	TOTAL
Weighted Percentage Score	47.5	16.8	9.2	7.1	<b>81</b>

**Rating Requirements (2009)**

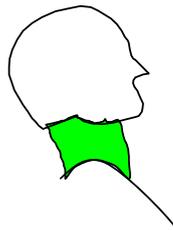
	Normalised Score (%)				TOTAL
★★★★★★	75	70	25	60	70
★★★★★	60	55	15	40	55
★★★★	30	30	10	25	45
★★★	25	25	5	15	35
★★	15	15	0	5	20



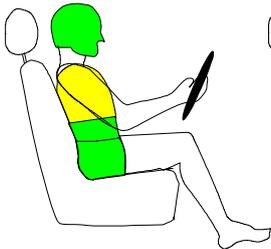
**Driver**



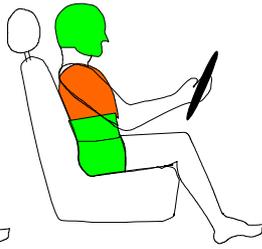
**Passenger**



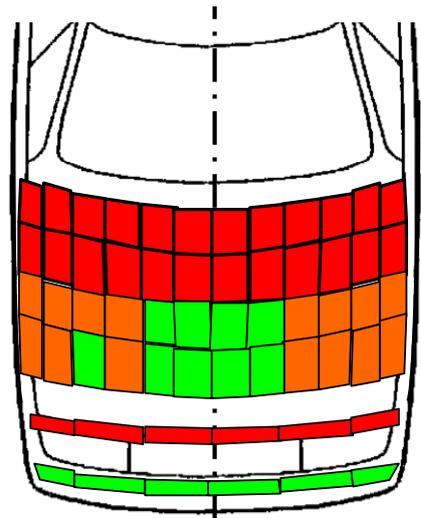
**Rear Impact (Whiplash)**



**Side**



**Pole**



<b>TEST RESULTS IN FULL</b>	
<b>FRONTAL IMPACT HEAD</b>	
Driver airbag contact	stable
Passenger airbag contact	stable
<b>Steering Wheel</b>	
rearward displacement	none
upward displacement	none
lateral displacement	2mm to the right
<b>FRONTAL IMPACT CHEST</b>	
Contact with steering wheel	none
Screen pillar rearward	2mm
Passenger compartment integrity	stable
<b>FRONTAL IMPACT UPPER LEGS, KNEES AND PELVIS</b>	
Stiffer structures present	none
Concentrated knee loading	none
<b>FRONTAL IMPACT LOWER LEGS, FEET AND ANKLES</b>	
Rearward pedal displacement	none
Upward pedal displacement	clutch - 3mm
Footwell rupture	none
<b>SIDE IMPACT AIRBAGS</b>	
Head protection airbag	yes
Torso protection airbag	yes
<b>CHILD PROTECTION</b>	
Restraints used	
18 month old	Britax Romer Baby Safe Plus, rearward facing using adult seatbelt
3 year old	Britax Romer Duo Plus, forward facing using ISOFIX anchorages and top tether
<b>CHILD RESTRAINTS FRONTAL IMPACT</b>	
Airbag disabling/warning label	Text and pictogram warning label permanently attached to both sides of the passenger sun visor
Forward head movement	
18 mth old (behind passenger)	protected
3 year old (behind driver)	protected
Chest Protection	
18 mth old: total load	good
vertical load	good
3-year-old: total load	good
vertical load	good
<b>CHILD RESTRAINTS SIDE IMPACT</b>	
Head protection	
18 mth old (struck side)	protected
3 year old (non-struck side)	protected
Head acceleration	
18 mth old	good
3 year old	good

## CAR TESTED



Make, model and hand of drive	Opel Astra 1.6 'Enjoy', LHD
Body type	5 door hatchback
Year tested	2009
Kerb weight	1318kg
Chassis number from which Euro NCAP rating applies	Applies to all Astras of the specification tested
Safety Equipment	Driver and passenger single stage frontal airbags; side impact chest airbag; side impact head airbag; front seatbelt dual pretensioners and load limiters; ISOFIX and top tether anchorages in rear outboard seats; electronic stability control; driver and front passenger seatbelt reminder system



## COMMENTS

<b>ADULT OCCUPANT</b>	The passenger compartment remained stable in the frontal impact, the windscreen pillar moving rearward less than 2mm. Dual pretensioners restrained the dummies well and readings indicated that the knees and femurs of both the driver and passenger were well protected. Opel were able to show that occupants of different sizes, and those sat in different seating positions, would be similarly well protected. The Astra scored maximum points for its protection of the front passenger occupant in the frontal impact. Protection of the chest was adequate in the side barrier impact and marginal in the more severe side pole test, with good protection of all other body regions in both tests. Protection against whiplash injuries in rear impacts was rated as good.
<b>CHILD PROTECTION</b>	Based on dummy readings in the frontal and side impacts, the Astra scored maximum points for protection of the 3 year dummy. Forward movement of the head was well controlled. In the side barrier test, both dummies were properly contained by their restraints. The passenger airbag can be disabled to allow a rearward facing child restraint to be used in that seating position. However, information provided to the driver regarding the status of the airbag is not sufficiently clear. The dangers of using a rearward facing child seat in that position without first disabling the airbag are clearly explained in a label attached to the passenger's sun visor.
<b>PEDESTRIAN PROTECTION</b>	The car scored maximum points for the protection offered to pedestrians' legs by the bumper. However, the protection provided by the front edge of the bonnet was poor and scored no points in Euro NCAP's tests. In most areas likely to be struck by the head of a child, the bonnet offered marginal protection. In all areas likely to be struck by an adult's head, the bonnet provided poor protection.
<b>SAFETY ASSIST</b>	Electronic Stability Control (ESC) is standard equipment across the whole of the model range as is a seatbelt reminder system for the driver and front passenger seats.

**Euro NCAP's rating applies fully only to the model with the specifications detailed here. Some equipment may not be fitted as standard to all versions in all countries. You should ensure that your car is fitted with the safety equipment you require.**



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