ANCAP HAS BEEN CONDUCTING PEDESTRIAN PROTECTION TESTS SINCE 2000
ESTIMATED BENEFITS OF A GOOD 4-STAR RATING

ANCAP Pedestrian Protection Trends - Vehicle Models

Year published by ANCAP

- 4 Stars
- 3 Stars
- 2 Stars
- 1 or Nil stars
Pedestrian Protection Tests

Change to test protocol during 2010. Descriptive rating being introduced to highlight the change.

<table>
<thead>
<tr>
<th>Score</th>
<th>Old star rating</th>
<th>New descriptive rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.5 or more</td>
<td><strong>ANCAP</strong> Rated</td>
<td>Good</td>
</tr>
<tr>
<td>18.5 to 27.49</td>
<td><strong>ANCAP</strong> Rated</td>
<td>Acceptable</td>
</tr>
<tr>
<td>9.5 to 18.49</td>
<td><strong>ANCAP</strong> Rated</td>
<td>Marginal</td>
</tr>
<tr>
<td>0.5 to 9.49</td>
<td><strong>ANCAP</strong> Rated</td>
<td>Poor</td>
</tr>
<tr>
<td>Less than 0.5</td>
<td><strong>ANCAP</strong> Rated</td>
<td>Poor</td>
</tr>
</tbody>
</table>

A result of at least “marginal” will be required for an ANCAP 5-star safety rating from 2012.
ANCAP ROADMAP 2011-2015

Safety Assist Technologies
Intelligent Speed Assistance

- Encourages drivers to comply with speed limits
- Speed limit mapping of Australia is well underway
- Many sat-nav systems have ISA or ISA capability
- ETSC estimates 20% of urban pedestrian casualties could be saved through ISA
Daytime Running Lights

- Increases forward conspicuity
- Now mandatory in Europe
- Dedicated DRLs far more effective than low beam headlights
- Estimated that 12% of pedestrian fatalities could be saved through DRLs
Safety Assist Technologies

2. HAZARD ALERT
Driver can handle the situation, aided by alerts

ISA
PEDESTRIAN WARNING
LANE WARNING
FOLLOW DIST WARNING
BLIND SPOT WARNING
REVERSING ASSIST
Reversing Assistance

- All vehicles have a poor rearward field of view
- Toddlers are particularly at risk
- Reversing cameras can reduce risk (but are not a substitute for adult supervision)
- NHTSA about to regulate in the USA. Estimates 42% effectiveness for rearview cameras
Safety Assist Technologies

Auto Braking
Auto Braking
NRMA video on Subaru Eyesight

Safety Assist Technologies

1. NORMAL DRIVING
   Driver is kept informed of conditions
2. HAZARD ALERT
   Driver can handle the situation, aided by alerts

3. AIRBAGS*
4. PRETENSIONERS*
5. PEDESTRIAN PROT*
6. PRE-SAFE
7. WHIPLASH*
8. SEAT BELT REMINDERS
9. ROOF STRENGTH*
10. 3-POINT SEAT BELTS
Safety Assist Technologies

Proposed Requirements for a 5-star ANCAP Rating

<table>
<thead>
<tr>
<th>Year</th>
<th>&quot;Mandatory SAT&quot; 1</th>
<th>Minimum number of &quot;Additional SAT&quot; items 2</th>
<th>Minimum Pedestrian Rating</th>
<th>Minimum Whiplash Rating</th>
<th>Minimum Roof Strength Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>ESC, 3PSB, HPT front seats</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2012</td>
<td>&quot;</td>
<td>2</td>
<td>Marginal</td>
<td>Acceptable</td>
<td>-</td>
</tr>
<tr>
<td>2013</td>
<td>2012 + SBR front seats, EBA</td>
<td>3</td>
<td>Marginal</td>
<td>Acceptable</td>
<td>-</td>
</tr>
<tr>
<td>2014</td>
<td>2013 + HPT 2nd row seats</td>
<td>4</td>
<td>Acceptable</td>
<td>Good</td>
<td>Acceptable</td>
</tr>
<tr>
<td>2015</td>
<td>2014 + SBR 2nd row fixed seats</td>
<td>5</td>
<td>Acceptable</td>
<td>Good</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>