

# ANCAP Safety Rating

## NISSAN X-TRAIL (February 2017 - onwards)



Nissan X-Trail

### This ANCAP safety rating applies to:

|              |  |
|--------------|--|
| Make / Model | Nissan X-Trail                         |
| Year Range   | February 2017 - onwards                |
| Variant(s)*  | All petrol & 1.6 litre diesel variants |
| Vehicle Type | Medium SUV                             |

The tested model of Nissan X-Trail was introduced in Australia and New Zealand in 2014. This ANCAP safety rating applies to all variants built from February 2017, except 2.0 litre diesel variants which are unrated.

Dual frontal, side chest and side head airbags (curtains) are standard. An autonomous emergency braking (AEB) system which operates at city and interurban speeds is standard on models built from February 2017. Advanced seat belt reminders are fitted to the front and 2<sup>nd</sup> row seats. Third row seats, where fitted, do not have seat belt reminders or side curtains. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

### Injury Outcomes.

#### Frontal Offset Driver



#### Passenger



#### Side Impact & Pole# Driver



#### Whiplash Protection Driver



# Head protection only.

### Test Results Summary.

|                          |                          |
|--------------------------|--------------------------|
| Airbags                  | Dual Frontal, Side, Head |
| Frontal Offset Test      | 14.68 (out of 16)        |
| Side Impact Test         | 16.00 (out of 16)        |
| Pole Test                | 2.00 (out of 2)          |
| Whiplash Protection      | Good                     |
| Pedestrian Protection    | Acceptable               |
| ESC                      | Standard                 |
| Seat Belt Reminders      | 2.60 (out of 3)          |
| Overall Score            | 35.28 (out of 37)        |
| ANCAP Safety Rating      | ★★★★★                    |
| Rating Year <sup>^</sup> | 2017                     |

### Occupant Protection.

#### Frontal Offset Test

Each body region is scored out of 4 points

|              |             |
|--------------|-------------|
| Head / neck: | 4.00 points |
| Chest:       | 3.88 points |
| Upper legs:  | 4.00 points |
| Lower legs:  | 2.80 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. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

#### 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 |
|--------|-------------|

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: 15.44 points  
 Upper leg impacts: 5.84 points  
 Lower leg impacts: 6.00 points

This vehicle scored 27.28 out of 36 points (Acceptable). The X-Trail scored maximum points for the protection its bumper offered to pedestrians' legs, with good results recorded at all test locations. The front edge of the bonnet offered good or adequate protection. The bonnet surface provided protection that was adequate in almost all areas tested with some poor results only on the stiff windscreen pillars. (Tested by Euro NCAP v7.0)



### Score Deductions.

#### Deductions from frontal offset test scores

Head / neck: No deductions  
 Chest: No deductions  
 Upper legs: No deductions  
 Lower legs: No deductions

#### Deductions from side impact test score

Head / neck: No deductions  
 Chest: No deductions  
 Abdomen: No deductions  
 Pelvis: No deductions

#### Deductions from pole test score

Head: No deductions

### 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, lap/sash) 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)      | S            |
| Intelligent seat belt reminder (3 <sup>rd</sup> row seats)      | X            |
| Airbag - Frontal (driver)                                       | S            |
| Airbag - Frontal (passenger)                                    | S            |
| Airbag - Side, chest protection (front seats)                   | S            |
| Airbag - Side, chest protection (2 <sup>nd</sup> row seats)     | X            |
| Airbag - Side, head protection (front seats)                    | S            |
| Airbag - Side, head protection (2 <sup>nd</sup> row seats)      | S            |
| Airbag - Side, head protection (3 <sup>rd</sup> row seats)      | X            |
| Airbag - Knee (driver)  | X            |
| Airbag - Knee (front passenger)                                 | X            |
| Head restraints for all seats                                   | S            |
| Adaptive cruise control (ACC)                                   | V            |
| Antilock braking system (ABS)                                   | S            |
| Autonomous emergency braking (AEB)                              |              |
| - City  | S            |
| - Interurban  | S            |
| - Vulnerable road user  | V            |
| Automatic headlights  | S            |
| Automatic high beam   | V            |
| Blind spot monitoring (BSM)                                     | V            |
| Electronic brakeforce distribution (EBD)                        | S            |
| Electronic stability control (ESC)                              | S            |
| Emergency brake assist (EBA)                                    | S            |
| Fatigue reminder  | X            |
| Lane support system (LSS)                                       | V            |
| Daytime running lights (DRL)                                    | S            |
| Hill launch assist  | S            |
| Reversing collision avoidance                                   | S            |
| Speed assistance – automatic / intelligent speed limiting (ISA) | X            |
| Speed assistance - manual speed limiting                        | X            |
| Speed assistance - speed sign recognition & warning             | X            |
| Tyre pressure monitoring system (TPMS)                          | X            |

**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 but not available on any Australasian variant.

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

# ANCAP Safety Rating

## NISSAN X-TRAIL (February 2017 - onwards)



### Injury Values & Measurements.

| Body Region                   | Frontal offset test at 64 km/h (v6.0) |             | Side impact test at 50 km/h (v6.0) |
|-------------------------------|---------------------------------------|-------------|------------------------------------|
|                               | Driver                                | Passenger   | Driver                             |
| <b>Head</b>                   |                                       |             |                                    |
| HIC                           | 273.00                                | 272.00      | 9.00                               |
| Acceleration (g for 3ms)      | 39.50                                 | 39.10       | 16.70                              |
| <b>Neck</b>                   |                                       |             |                                    |
| Shear (kN)                    | 0.37                                  | 0.50        | -                                  |
| Tension (kN)                  | 1.01                                  | 0.73        | -                                  |
| Extension (Nm)                | 20.20                                 | 8.27        | -                                  |
| <b>Chest</b>                  |                                       |             |                                    |
| Acceleration (g for 3ms)      | -                                     | -           | -                                  |
| Compression (mm)              | 22.16                                 | 22.87       | 15.89                              |
| Viscous criterion (m/s)       | 0.06                                  | 0.10        | 0.07                               |
| <b>Abdomen</b>                |                                       |             |                                    |
| Force (kN)                    | -                                     | -           | 0.63                               |
| <b>Pelvis</b>                 |                                       |             |                                    |
| Force (kN)                    | -                                     | -           | 1.44                               |
| <b>Upper legs</b>             |                                       |             |                                    |
| Femur force left (kN)         | 0.34                                  | 1.08        |                                    |
| Femur force right (kN)        | 0.41                                  | 0.04        |                                    |
| Knee displacement left (mm)   | 0.31                                  | 0.81        |                                    |
| Knee displacement right (mm)  | 0.21                                  | 0.91        |                                    |
| <b>Lower legs</b>             |                                       |             |                                    |
| Force left (kN)               | 1.43                                  | 1.92        |                                    |
| Force right (kN)              | 2.84                                  | 1.62        |                                    |
| Index (upper / lower) left    | 0.51 / 0.27                           | 0.38 / 0.38 |                                    |
| Index (upper / lower) right   | 0.67 / 0.31                           | 0.27 / 0.19 |                                    |
| <b>Intrusion Measurements</b> |                                       |             |                                    |
| <b>Steering column</b>        |                                       |             |                                    |
| Forward (mm)                  | 25                                    |             |                                    |
| Upward (mm)                   | 16                                    |             |                                    |
| Sideways (mm)                 | 24                                    |             |                                    |
| <b>Pedals</b>                 |                                       |             |                                    |
| Clutch - rearward (mm)        | 59                                    |             |                                    |
| Accel - upward (mm)           | 15                                    |             |                                    |
| <b>A-Pillar</b>               |                                       |             |                                    |
| Rearward (mm)                 | 13                                    |             |                                    |

\* **Model Variants:** 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.

^ **Rating Year:** 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        | Nissan X-Trail Acenta LHD |
| Tested Vehicle(s) Built    | 2014                      |
| Tested Body Type           | Wagon                     |
| Tested Vehicle Kerb Weight | 1650 kg                   |
| Tested Vehicle Engine      | 1.6 litre diesel          |
| Tested By                  | Euro NCAP                 |
| Assessed By                | ANCAP                     |
| Document Reference         | XTRAIL17_REV              |
| Document Created / Revised | 20 June 2017              |
| Rating Published           | June 2017                 |
| Rating Updated             | N/A                       |



Frontal offset test at 64km/h