

Helping New Zealanders Build & Modify Safe Vehicles



TYRE SIZE TO RIM WIDTH COMPATIBILITY GUIDE (Version 5)

► Introduction

The purpose of this LVV Information Sheet is to provide a complete source of information regarding tyre and rim size compatibility. This fifth version has been released in order to provide the greatest possible range of fitments information and options, and has been presented in a different way which will make it quicker and easier for users to find the information they are looking for.

LVV Certifiers, vehicle modifiers, and the automotive industry should find this Information Sheet a helpful tool with which to ensure that their wheel and tyre fitments are compatible, and therefore safe, for most commonly-available types of passenger vehicles.

While this table does not cover all possible tyre sizes, most common fitments are captured.

► Legal Requirements

Paragraph 12.26.1(b) in Chapter 12 (Wheels and Tyres) of the New Zealand Car Construction Manual states that tyres must be an appropriate selection for the type and width of wheel to which they are fitted.

► Information Source

The information contained in the table has been provided from the 2020 edition of the European Tyre and Rim Technical Organisation (ETRTO) standard.

The graphed presentation style of the information has been developed by LVVTA for ease of use by the LVV Certifiers, the industry, and vehicle modifiers.

► Use of the New Compatibility Guide

To use the table, find your tyre width in the vertical column, and the tyre aspect ratio in the horizontal row, and the cell where the row and column intersects will provide the range of rim widths which are compatible with the chosen tyre dimensions.

► Combinations Not Listed in the Table

When presented with a wheel and tyre combination which is disallowed by the compatibility guide table, such a fitment is not permitted unless it is recommended by the tyre manufacturer in question, and written verification from the tyre manufacturer is provided to the LVV Certifier to confirm this.

Where the tyre size is not catered for within the compatibility guide table, a tyre manufacturer's recommendation, with written verification, may be accepted, or where this is not available the fitment should be consistent with the general fitment patterns contained in the compatibility guide table.

If you have any queries or require any further clarification relating to this information sheet, or if you would like to help us improve this document by reporting any errors or omissions, please feel free to contact a member of the LVVTA technical team at the Wellington LVVTA office on (04) 238 4343.



FOR FURTHER INFORMATION PLEASE CONTACT YOUR LVV CERTIFIER, OR LVVTA.

Tyre Size to Rim Width Compatibility Guide **Infosheet #01-2009** **Version 5** (June 2021)



Tyre Profile

	80	75	70	65	60	55	50	45	40	35	30	25
115	3.0 - 4.0											
125	3.0 - 4.0				3.5 - 4.5							
135	3.5 - 4.5	3.5 - 4.5	3.5 - 4.5	3.5 - 5.0	3.5 - 5.0							
145	3.5 - 5.0	3.5 - 5.0	3.5 - 5.0	4.0 - 5.0	4.0 - 5.0	4.0 - 5.0						
155	4.0 - 5.5	4.0 - 5.5	4.0 - 5.5	4.5 - 5.5	4.5 - 5.5	4.5 - 5.5						
165	4.0 - 6.0	4.0 - 6.0	4.0 - 6.0	4.5 - 6.0	4.5 - 6.0	4.5 - 6.0	4.5 - 6.0	5.0 - 6.0	5.0 - 6.0			
175	4.5 - 6.0	4.5 - 6.0	4.5 - 6.0	5.0 - 6.0	5.0 - 6.0	5.0 - 6.0	5.0 - 6.0	5.5 - 6.5	5.5 - 6.5			
185	4.5 - 6.0	4.5 - 6.0	4.5 - 6.5	5.0 - 6.5	5.0 - 6.5	5.0 - 6.5	5.0 - 6.5	6.0 - 7.0	6.0 - 7.5			
195	5.0 - 6.5	5.0 - 7.0	5.0 - 7.0	5.5 - 7.0	5.5 - 7.0	5.5 - 7.0	5.5 - 7.0	6.0 - 7.5	6.5 - 8.0			
205	5.0 - 7.0	5.0 - 7.0	5.0 - 7.5	5.5 - 7.5	5.5 - 7.5	5.5 - 7.5	5.5 - 7.5	6.5 - 8.0	7.0 - 8.0	7.0 - 7.5		
215	5.5 - 7.5	5.5 - 7.5	5.5 - 7.5	5.5 - 7.5	6.0 - 7.5	6.0 - 7.5	6.0 - 8.0	7.0 - 8.0	7.0 - 8.5	7.0 - 8.5		
225	6.0 - 7.5	6.0 - 7.5	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	7.0 - 9.0	7.5 - 9.0	7.5 - 9.0	7.5 - 8.5	
235	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	7.5 - 9.0	8.0 - 9.5	8.0 - 9.5	8.0 - 9.0	
245		6.5 - 8.5	6.5 - 8.5	7.0 - 8.5	7.0 - 9.0	7.0 - 9.0	7.0 - 9.0	7.5 - 9.0	8.0 - 9.5	8.0 - 9.5	8.0 - 9.5	
255		6.5 - 8.5	6.5 - 8.5	7.0 - 9.0	7.0 - 9.0	7.0 - 9.0	7.0 - 9.0	8.0 - 9.5	8.5 - 10.5	8.5 - 10.0	8.5 - 9.5	9.0 - 9.5
265		7.0 - 9.0	7.0 - 9.0	7.5 - 9.5	7.5 - 9.5	7.5 - 9.5	7.5 - 10.0	8.5 - 10.0	9.0 - 10.5	9.0 - 10.5	9.0 - 10.0	9.5 - 10.0
275			7.0 - 9.0	7.5 - 9.5	7.5 - 9.5	7.5 - 9.5	7.5 - 10.0	8.5 - 10.5	9.0 - 11.0	9.0 - 11.0	9.0 - 10.5	9.5 - 10.5
285			7.5 - 9.5	8.0 - 10.0	8.0 - 10.0	8.0 - 10.0	8.0 - 10.0	9.0 - 10.5	9.5 - 11.0	9.5 - 11.0	9.5 - 11.0	10.0 - 11.0
295			7.5 - 10.0		8.0 - 10.0	8.0 - 10.5	8.0 - 10.5	9.5 - 11.0	10.0 - 11.5	10.0 - 11.5	10.0 - 11.0	10.0 - 11.0
305			8.0 - 10.0		8.5 - 11.0	8.5 - 11.0	8.5 - 11.0	9.5 - 11.5	10.0 - 12.0	10.0 - 12.0	10.5 - 11.5	10.5 - 11.5
315			8.0 - 10.5		8.5 - 11.0	8.5 - 11.5	9.0 - 11.5	10.0 - 12.0	10.5 - 12.5	10.5 - 12.5	10.5 - 12.0	11.0 - 12.0
325						9.0 - 11.5	9.0 - 11.5	10.0 - 12.0	11.0 - 13.0	11.0 - 13.0	11.0 - 12.5	11.5 - 12.5
335										11.0 - 13.0	11.5 - 13.0	11.5 - 12.5
345						10.5 - 12.5				11.5 - 13.5	11.5 - 13.0	12.0 - 13.0
355											12.0 - 13.0	12.5 - 13.5

Tyre Width

4WD Tyres

31x10.5x15	7.0 - 9.0
32x11.5x15	7.5 - 10.0
32x12.5x15	8.5 - 11.0
33x12.5x15	8.0 - 10.5
33x12.5x16	8.0 - 11.5

33x12.5x17	9.0 - 11.5
33x12.5x18	9.0 - 11.5
33x12.5x20	9.0 - 11.5
33x12.5x22	9.0 - 11.5
35x11.5x20	8.0 - 10.5

35x12.5x15	8.0 - 10.5
35x12.5x16	8.0 - 10.5
35x12.5x17	8.0 - 10.5
35x12.5x18	9.0 - 11.5
35x12.5x20	9.0 - 11.5

35x12.5x22	9.0 - 11.5
35x13.5x15	9.0 - 11.5
35x13.5x20	9.5 - 12.0
35x13.5x22	9.5 - 12.0
37x12.5x15	8.0 - 10.5

37x12.5x16	8.0 - 10.5
37x12.5x17	8.0 - 10.5
37x12.5x18	8.0 - 10.5
37x12.5x20	9.0 - 11.5
37x13.5x20	9.5 - 12.0

Disclaimer - not all tyre sizes are currently available