

Tyre Size to Rim Size Compatibility Guide

Background:

The purpose of this LVV Information Sheet is to provide a complete source of information regarding tyre and rim size compatibility to LVV Certifiers. It was found that the original version of this info-sheet was very narrow in its scope, and was largely directed at vehicles which had been modified in a particular style. This fourth version has been released in order to give a greater range of fitments and options, and should give LVV Certifiers a helpful tool to ensure wheel & tyre compatibility on most commonly available types of passenger vehicle.

Legal Requirements:

Paragraph 2.6(1)(b) of Low Volume Vehicle Standard 205-00 (Wheels & Tyres), states that tyres must be an appropriate selection for the type and width of wheel to which they are fitted.

Compatibility Tables:

The information contained in the following tables has been provided by tyre manufacturers and tyre experts. These tables don't cover all possible tyre sizes, but should cover most common fitments. Where the tyre size is not listed, the general patterns found in these tables should be followed to determine the correct fitment range.

We ask all LVV Certifiers who are presented with a vehicle with tyres that appear to be too narrow or too wide for the rims, to check these tables to ensure that the tyre size is compatible with the wheel-rim size.

Individual Tyre Manufacturer's Variations:

Whilst we have made every reasonable effort to ensure that the information contained in this information sheet is correct, specifications regarding tyre size and fitment vary between tyre manufacturers. Where our sources have provided us differing specifications in compiling this info-sheet, we've broadened the range to encompass the minimum to the maximum rim width, allowing for the broadest possible fitment range.

Additionally, where an LVV Certifier is presented with a wheel & tyre combination which is outside the scope of the tables in this info-sheet, LVVTA requires that the guidelines of the tyre manufacturer in question are followed, and verification from the tyre manufacturer is provided by the LVV Certifier when forwarding the LVV plate application.

Passenger Car

10 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
145/70R10	4.0 – 5.0
145/80R10	3.5 – 5.0
155/70R10	4.5 – 5.5
155/80R10	4.0 – 5.0
165/70R10	4.0 – 6.0

12 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
145/70R12	3.5 – 5.0
145/80R12	3.5 – 5.0
155/70R12	4.0 – 5.0
155/80R12	4.0 – 5.0
165/60R12	4.5 – 6.0
165/70R12	4.0 – 5.5
165/75R12	4.0 – 6.0
175/70R12	4.5 – 6.0

13 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
145/70R13	3.5 – 5.0
145/80R13	3.5 – 5.0
155/65R13	4.5 – 5.5
155/70R13	4.0 – 5.5
155/80R13	4.5 – 5.0
165/65R13	4.5 – 6.0
165/70R13	4.0 – 6.0
165/75R13	4.0 – 6.0
165/80R13	4.0 – 5.5
175/60R13	5.0 – 6.0
175/70R13	4.5 – 6.0
185/60R13	5.0 – 6.5
185/70R13	4.5 – 6.5
205/60R13	5.5 – 7.5
215/50R13	5.5 – 8.5
215/60R13	6.0 – 7.5
225/55R13	6.0 – 8.0
225/60R13	6.0 – 8.0
235/60R13	6.5 – 8.5

14 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
145/80R14	3.5 – 5.0
155/80R14	4.0 – 5.0
165/55R14	4.5 – 6.0
165/60R14	4.5 – 6.0
165/65R14	4.5 – 6.0
165/70R14	4.0 – 5.5
165/80R14	4.0 – 5.5
175/60R14	5.0 – 6.0
175/65R14	5.0 – 6.0
175/70R14	4.5 – 6.0
175/80R14	4.5 – 6.0
185/55R14	5.0 – 6.5
185/60R14	5.0 – 6.5
185/65R14	5.0 – 6.5
185/70R14	4.5 – 6.5
185/80R14	4.5 – 6.0
195/45R14	6.0 – 7.5
195/55R14	5.5 – 7.0
195/60R14	5.5 – 7.0
195/65R14	5.5 – 7.0
195/70R14	5.0 – 7.0
205/55R14	5.5 – 7.5
205/60R14	5.5 – 7.5
205/70R14	5.0 – 7.0
215/65R14	5.5 – 7.5
225/55R14	6.0 – 8.0
235/60R14	6.5 – 8.5
245/50R14	6.5 – 9.5
245/60R14	7.0 – 8.5
255/55R14	7.0 – 9.0
255/60R14	7.0 – 9.0
265/50R14	7.0 – 10.0
265/60R14	7.5 – 9.5
275/60R14	7.5 – 9.5

15 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
155/80R15	4.0 – 6.0
165/65R15	4.5 – 6.0
165/80R15	4.0 – 5.5
175/60R15	5.0 – 6.0
175/65R15	5.0 – 6.5
185/55R15	5.0 – 6.5
185/60R15	5.0 – 6.5
185/65R15	5.0 – 6.5
195/45R15	6.0 – 7.5
195/50R15	5.5 – 7.0
195/55R15	5.5 – 7.0
195/60R15	5.5 – 7.0
195/65R15	5.5 – 7.0
195/80R15	5.0 – 6.5
205/50R15	5.5 – 7.5
205/55R15	5.5 – 7.5
205/60R15	5.5 – 7.5
205/65R15	5.5 – 7.5
205/70R15	5.0 – 7.5
215/55R15	6.0 – 7.5
215/60R15	6.0 – 7.5
215/65R15	6.0 – 7.5
215/70R15	5.5 – 7.0
225/50R15	6.0 – 8.0
225/55R15	6.0 – 8.0
225/60R15	6.0 – 8.0
225/75R15	6.0 – 7.5
225/80R15	6.0 – 7.5
235/55R15	6.5 – 8.5
235/60R15	6.5 – 8.5
235/75R15	6.0 – 8.0
245/60R15	6.5 – 9.5
255/55R15	7.0 – 9.0
255/60R15	7.0 – 9.0
275/55R15	7.5 – 9.5
275/60R15	7.0 – 9.5
295/50R15	8.0 – 10.0
295/60R15	8.0 – 9.5
315/60R15	8.5 – 11.0
345/55R15	10.5 – 12.5

16 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
165/80R16	4.0 – 6.5
185/55R16	5.0 – 6.5
195/45R16	6.0 – 7.5
195/50R16	5.5 – 7.0
195/55R16	5.5 – 7.0
195/80R16	5.0 – 6.5
205/40R16	7.0 – 8.0
205/45R16	6.5 – 7.5
205/50R16	5.5 – 7.5
205/55R16	5.5 – 7.5
205/60R16	5.5 – 7.5
205/65R16	5.5 – 7.5
215/40R16	7.0 – 8.5
215/45R16	7.0 – 8.0
215/50R16	6.0 – 7.5
215/55R16	6.0 – 7.5
215/60R16	6.0 – 7.5
215/65R16	6.0 – 7.5
215/70R16	5.5 – 7.5
215/80R16	5.5 – 7.5
225/45R16	7.0 – 8.5
225/50R16	6.0 – 8.0
225/55R16	6.0 – 8.0
225/60R16	6.0 – 8.0
225/65R16	6.0 – 8.0
225/70R16	6.0 – 8.0
235/60R16	6.5 – 8.5
235/65R16	6.5 – 8.5
235/70R16	6.0 – 8.0
235/80R16	6.0 – 8.0
245/50R16	7.0 – 8.5
245/60R16	7.0 – 8.5
245/70R16	6.5 – 8.0
255/50R16	7.0 – 9.0
255/60R16	7.0 – 9.0
255/65R16	7.0 – 9.0
255/70R16	6.5 – 8.5
265/50R16	7.5 – 9.5
265/70R16	7.0 – 9.0
275/60R16	7.5 – 9.5

275/70R16	7.0 – 9.0
285/60R16	8.0 – 10.0
295/50R16	8.0 – 10.5

17 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
185/70R17	4.5 – 6.0
195/40R17	6.5 – 8.5
195/45R17	6.0 – 7.5
205/40R17	7.0 – 8.0
205/45R17	6.5 – 8.0
205/50R17	5.5 – 7.5
205/60R17	5.5 – 7.5
215/35R17	7.0 – 8.5
215/40R17	7.0 – 8.5
215/45R17	7.0 – 8.0
215/50R17	6.0 – 8.0
215/55R17	6.0 – 7.5
215/60R17	6.0 – 7.5
225/35R17	7.5 – 9.0
225/45R17	7.0 – 8.5
225/50R17	6.0 – 8.0
225/55R17	6.0 – 8.0
225/60R17	6.0 – 8.0
225/65R17	6.0 – 8.0
235/40R17	8.0 – 9.5
235/45R17	7.5 – 9.0
235/50R17	6.5 – 8.5
235/55R17	6.5 – 8.5
235/60R17	6.5 – 8.5
235/65R17	6.5 – 8.5
245/35R17	8.0 – 9.5
245/40R17	8.0 – 9.5
245/45R17	7.5 – 9.0
245/50R17	7.0 – 8.5
245/70R17	6.5 – 8.5
255/40R17	8.5 – 10.0
255/45R17	8.0 – 9.5
255/60R17	7.0 – 9.0
265/40R17	9.0 – 10.5
265/35R17	9.0 – 10.5
265/55R17	7.5 – 9.5
265/70R17	7.0 – 9.0

275/35R17	9.0 – 11.0
275/40R17	9.0 – 11.0
275/50R17	7.5 – 9.5
275/55R17	7.5 – 9.5
285/60R17	8.0 – 10.0
285/65R17	8.0 – 10.0
295/40R17	10.0 – 11.5
335/35R17	11.0 – 13.0

18 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
205/40R18	7.0 – 8.0
205/55R18	5.5 – 7.5
215/35R18	7.0 – 8.5
215/40R18	7.0 – 8.5
215/45R18	7.0 – 8.0
215/55R18	6.0 – 7.5
225/35R18	7.5 – 9.0
225/40R18	7.5 – 9.0
225/45R18	7.0 – 8.5
225/50R18	6.0 – 8.0
225/55R18	6.0 – 8.0
225/60R18	6.0 – 8.0
235/40R18	8.0 – 9.5
235/45R18	7.5 – 9.0
235/50R18	6.5 – 8.5
235/55R18	6.5 – 8.5
235/60R18	6.5 – 8.5
235/65R18	6.5 – 8.5
245/35R18	8.0 – 9.5
245/40R18	8.0 – 9.5
245/45R18	7.5 – 9.0
245/55R18	7.0 – 8.5
245/60R18	7.0 – 8.5
255/30R18	8.5 – 9.5
255/35R18	8.5 – 10.0
255/40R18	8.0 – 10.5
255/45R18	8.0 – 9.5
255/55R18	7.0 – 9.0
255/60R18	7.0 – 9.0
255/65R18	7.0 – 9.0
255/70R18	6.5 – 8.5

265/35R18	8.5 – 10.5
265/40R18	9.0 – 10.5
265/55R18	7.5 – 9.5
265/60R18	7.5 – 9.5
275/35R18	9.0 – 11.0
275/40R18	9.0 – 11.0
285/30R18	9.5 – 10.5
285/35R18	9.5 – 11.0
285/55R18	8.0 – 10.0
295/30R18	10.0 – 11.0
295/35R18	10.0 – 11.5
295/40R18	10.0 – 11.5
305/60R18	8.5 – 11.0
315/30R18	10.5 – 12.5
325/30R18	11.0 – 13.0
335/30R18	11.0 – 13.0
345/35R18	11.5 -13.5

19 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
215/35R19	7.0 – 8.5
225/30R19	7.5 – 9.0
225/35R19	7.5 – 9.5
225/40R19	7.5 – 9.0
225/45R19	7.0 – 9.0
235/35R19	8.0 – 9.5
235/55R19	6.5 – 8.5
245/30R19	8.0 – 9.0
245/35R19	8.0 – 9.5
245/40R19	8.0 – 9.5
245/45R19	7.5 – 9.0
245/55R19	7.0 – 9.0
255/30R19	8.5 – 9.5
255/35R19	8.5 – 10.0
255/40R19	8.5 – 10.0
255/60R19	7.0 – 9.0
265/30R19	9.0 – 10.0
265/35R19	9.0 – 10.5
275/30R19	9.0 – 10.5
275/35R19	9.0 – 11.0
275/40R19	9.0 – 11.0
275/45R19	8.5 – 10.5
285/30R19	9.5 – 10.5

285/35R19	9.5 – 11.0
295/30R19	10.0 – 11.0
295/35R19	10.0 – 11.5
305/25R19	10.5 – 11.5
305/30R19	10.5 – 11.5
315/25R19	11.0 – 12.0
345/30R19	11.5 – 12.5
355/25R19	12.5 – 13.5

20 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
225/30R20	7.5 – 9.5
225/35R20	7.5 – 9.0
235/30R20	8.5
245/30R20	8.0 – 9.5
245/35R20	8.0 – 9.5
245/40R20	8.0 – 9.5
245/45R20	7.5 – 9.0
245/50R20	7.0 – 8.5
255/30R20	8.5 – 9.5
255/35R20	8.5 – 10.0
255/45R20	8.0 – 9.5
265/30R20	9.0 – 10.0
275/25R20	9.5 – 10.5
275/30R20	9.0 – 11.0
275/35R20	9.0 – 11.0
285/25R20	10.5
285/30R20	9.5 – 10.5
285/35R20	9.5 – 11.0
285/50R20	8.0 - 10.0
285/55R20	8.0 – 10.0
295/25R20	10.0 – 11.0
295/30R20	10.0 – 11.0
305/25R20	10.5 – 11.5
325/25R20	11.5 – 12.5
335/30R20	11.5 – 12.5
345/25R20	12.0 – 13.0

21 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
245/35R21	8.0 – 9.5
245/40R21	8.0 – 9.5

255/30R21	8.5 – 9.5
255/35R21	8.5 – 10.0
265/40R21	9.0 – 10.5
275/40R21	9.0 – 11.0
275/45R21	8.5 – 10.5
285/30R21	9.5 – 10.5
285/35R21	9.5 – 11.0
285/45R21	9.0 – 10.5
295/25R21	10.0 – 11.0
295/30R21	10.0 – 11.0
295/35R21	9.0 – 10.5
295/40R21	10 – 11.5
325/30R21	11.0 – 12.0

22 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
235/30R22	8.5
245/30R22	8.0 – 9.0
255/30R22	8.5 – 9.5
255/35R22	8.5 – 10.0
265/30R22	9.0 – 10.0
265/35R22	9.0 – 10.5
275/35R22	9.0 – 11.0
275/45R22	8.5 – 10.5
285/25R22	10.0 – 11.0
285/30R22	9.5 – 10.5
285/35R22	9.5 – 11.0
285/45R22	9.0 – 10.5
295/25R22	10.0 – 11.0
295/30R22	10.0 – 11.0
295/40R22	10.0 – 11.5
305/40R22	10.0 – 12.0
305/45R22	9.5 – 11.5
325/40R22	11.0 – 13.0

23 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
275/30R23	9.0 – 10.0
305/25R23	10.5 – 11.5
305/30R23	10.5 – 11.5
305/35R23	10.0 – 12.0
315/25R23	11.0 – 12.0
315/40R23	10.5 – 12.5

24 Inch – Passenger Car	
<i>Tyre size</i>	<i>Rim width (inch)</i>
255/30R24	8.5 – 9.5
275/25R24	10.0
275/30R24	9.0 – 10.0
295/30R24	10.0 – 11.0

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14 Inch – 4X4/SUV	
<i>Tyre size</i>	<i>Rim width (inch)</i>
27X8.5R14	6.0 – 7.5

15 Inch – 4X4/SUV	
<i>Tyre size</i>	<i>Rim width (inch)</i>
195/70R15	5.0 – 6.5
205/70R15	5.5 – 6.5
215/70R15	5.5 – 6.5
215/75R15	5.5 – 7.5
215/80R15	5.5 – 6.5
225/75R15	6.0 – 7.5
235/70R15	6.0 – 8.0
235/75R15	6.0 – 8.0
265/70R15	7.0 – 8.5
30X9.5R15	6.5 – 8.5
31X10.5R15	7.0 – 9.0
32X11.5R15	8.0 – 10.0
33X12.5R15	8.5 – 11.0

16 Inch – 4X4/SUV	
<i>Tyre size</i>	<i>Rim width (inch)</i>
185/75R16	5.0 – 6.0
205/80R16	5.0 – 7.0
215/65R16	6.0 – 7.5
215/70R16	5.5 – 7.0
225/70R16	6.0 – 7.5
225/75R16	6.0 – 7.5
235/70R16	6.0 – 8.0
235/85R16	6.0 – 8.0
245/70R16	6.5 – 8.5
245/75R16	6.5 – 8.5
255/65R16	7.0 – 9.0

255/70R16	6.5 – 8.5
265/70R16	7.0 – 9.0
265/75R16	7.0 – 9.0
275/70R16	7.0 – 9.0
305/70R16	8.0 – 9.5

17 Inch – 4X4/SUV	
Tyre size	Rim width (inch)
225/60R17	6.0 – 8.0
225/65R17	6.0 – 8.0
235/65R17	6.5 – 8.5
245/70R17	6.5 – 8.0
255/60R17	7.0 – 9.0
265/65R17	7.5 – 9.5

18 Inch – 4X4/SUV	
Tyre size	Rim width (inch)
225/55R18	6.0 – 8.0
235/55R18	6.5 – 8.5
235/60R18	6.5 – 8.5
255/55R18	7.0 – 9.0
265/60R18	7.0 – 9.5
285/60R18	8.0 – 10.0

19 Inch – 4X4/SUV	
Tyre size	Rim width (inch)
255/50R19	7.0 – 9.0
285/45R19	9.0 – 10.5

20 Inch – 4X4/SUV	
Tyre size	Rim width (inch)
245/45R20	7.5 – 9.0
255/50R20	7.0 – 9.0
265/50R20	7.5 – 9.5
275/45R20	8.5 – 10.5
275/55R20	7.5 – 9.5
295/45R20	9.5 – 11.0
305/50R20	8.5 – 11.0
33X12.5R20	8.5 – 11.0

22 Inch – 4X4/SUV	
Tyre size	Rim width (inch)
265/35R22	9.0 – 10.5
305/40R22	10.0 – 12.0
305/45R22	9.5 – 11.5

24 Inch – 4X4/SUV	
Tyre size	Rim width (inch)
295/40R24	10.0 – 11.5
305/35R24	10.0 – 12.0

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 the technical team at the Wellington office on (04) 238 4343.

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