

# REQUIREMENTS FOR URBAN BUSES (RUB) IN NEW ZEALAND

## Summary of changes made to the RUB document 2020

SEPTEMBER 2020

RUB 2014	RUB 2020
<b>Front page photo</b>	Updated with photo of Island Bay no 1 bus.
<b>Contents page</b>	<b>Contents page</b> being updated as document progresses.
<b>Record of amendments</b>	<b>Record of amendments</b> – updated for RUB review 2020.
<b>Abbreviations</b>	<p><b>Abbreviations</b> – updated to ‘abbreviations/definitions’ with:</p> <ul style="list-style-type: none"> <li>• new Australian Design Rules for technical specifications and definitions included to align with the Public Service Vehicle Rule</li> <li>• new ‘Waka Kotahi NZ Transport Agency’ definition to ‘NZTA/Transport Agency’ abbreviation</li> <li>• new abbreviation ‘Waka Kotahi’ with definition ‘Waka Kotahi NZ Transport Agency’</li> </ul>
<b>1.</b>	No change to title.
<b>1.1 Introduction</b>	<ul style="list-style-type: none"> <li>• Updated <b>1.1.2</b> to include <b>evolution of the RUB</b> and to include information on effectiveness, from RUB project definition document.</li> <li>• Updated <b>1.1.3 – Strategic context</b> to include 2018 GPS priorities.</li> <li>• <b>1.1.4 Implementation</b> remains unchanged.</li> <li>• Added <b>1.1.5 Verification of RUB requirements</b> as requirement for inspection organisations and vehicle inspectors appointed by Waka Kotahi to conduct inspections and certifications for entry into service or in-service periodic inspections.</li> </ul>

RUB 2014	RUB 2020
1.2 Scope	<ul style="list-style-type: none"> <li>No change to <b>1.2.1 Regional Council/Auckland Transport contracted urban bus services</b></li> <li>Updated <b>1.2.2 – What does ‘new to service’ mean?</b></li> </ul>
1.2.3 Special exemption for some existing bus orders.	<b>1.2.3 Does the RUB apply to new, used and existing vehicles in the fleet?</b>
1.2.4 Exemption for contracted school and rural services	Updated <b>1.2.4 Special exemptions for some existing buses. Exemptions for school buses</b> to include new dates for RUB.
1.2.5 Land transport rules	Updated <b>1.2.5 RUB compliance and variation for rural services or inter-city commuter services</b> . Took out reference to school buses, added Very Small Bus, inter-city services. Instead of an exemption, made a variation for rural or inter-city commuter services.
1.2.6 RUB and the Transport Agency’s procurement rules	<b>1.2.6 Land transport rules</b> – took this paragraph out and provided a link to LTR. <b>Note: Procurement moved to Appendix: Section 7.5</b>
1.2.7 Does the RUB apply to new, used and existing vehicles in the fleet? to this section as it relates to new and existing age of buses.	Moved to 1.2.3.
1.2.8 Regular reviews of the RUB	Changed to <b>1.2.7 Regular reviews of the RUB</b> – no changes made.
1.2.9 Interpretation and good practice - deleted	
1.2.10 Items not included - moved to bottom appendix.	
1.3 Definitions concerning buses	<b>1.3 Bus sizes</b> – amended within section and definitions moved up to abbreviations/definitions.
1.4 Process for seeking a variation	Moved to <b>Appendix: Section 7.5</b> .
2. Design and performance	No change to title.
2.1 Introduction	<b>2.1 Introduction</b> – no change.
2.2 Maximum vehicle age and fleet average age profile	<b>2.2 Maximum vehicle age and fleet average age profile</b> – remains at 20 years and midlife defined as 10 years.

**2.3 Engine****2.3 Performance** – now includes specs relating to:

- Acceleration – changed to **Minimum: 0-50 km/h ≤ 18 seconds**.
- Transmission – moved from Section 2.4
- Suspension – moved from Section 2.5
- Stability and steering moved from Section 2.6
- Vehicle Braking – moved from Section 2.7
- Hold brake/interlock – added
- General safety, fire resistance – added

**Deleted Interpretation section.****2.4 Transmission** – moved to Section 2.3**2.4 Environmental** – new section created:

- Emissions – changed to Euro VI C-stage
- Use of defeat or cheat devices are prohibited. Ongoing compliance with standard.
- Contains specs on external and internal noise also.

**2.5 Suspension** – moved to Section 2.3**2.6 Stability and steering** – moved to Section 2.3**2.7 Braking** – moved to Section 2.3**3. Access****3 Vehicle entrance and exit**

- changed to reflect entry and exit to the vehicle.

**3.1 Introduction to the priority seating area** – moved to Section 4.3**3.1 Ramp**

- legal requirements, measurements, design features and signage.

**3.2 Doors** – moved to Section 3.3**3.2 Ticketing/fare collection area**

- changed to incorporate ticketing technology and placement of machine for disabled people.

**3.3 Step height/depths** – moved to Section 3.4**3.3 Doors**

- changed to reflect different bus sizes.

**3.4 Floors** – moved to Section 4.5**3.4 Step height/depths**

- kneeling is a requirement, except for VSB (Very Small Buses).

## RUB 2014

**3.5 Aisle width** – moved to Section 4.6

**3.6 Seating configuration** – deleted

**3.7 Seating design** – moved to Section 4.7

**3.8 Luggage/stroller/prams/mobility devices** – moved to Section 4.3

## 4. Vehicle interior, entrance and exit

### 4.1 Introduction

**4.2 Step and plinth edges** – moved to Section 3.5

**4.3 Stanchions/handrails** – moved to Section 4.8

**4.4 Grab handles on seat backs and elsewhere** – moved to Section 4.9

**4.5 Lighting** -- moved to Section 4.10

**4.6 Security and safety** – moved to Section 4.11

**4.7 Heating, ventilation and air conditioning** – moved to Section 4.12

**4.8 Demisting** – moved to Section 4.13

## RUB 2020

### 3.5 Step and plinth edges

- moved specs on slip resistant and contrasting colour performance to Appendix.

## 4. Vehicle interior

### 4.1 Driver compartment

- includes info on comfort and onboard security.

### 4.2 Driver operational communication

### 4.3 Priority seating area

- diagram changed to include two wheelchair spaces and 2 sideways-facing, single fold-up seats for mothers with children or carers.
- priority seats put behind Double-barrelled hand holds to ensure safety.

### 4.4 Wheelchairs

- measurements changed to improve wheelchair manageability

### 4.5 Floors

### 4.6 Aisle width

### 4.7 Seating design

- specifies measurements and material.

### 4.8 Stanchions/handrails

- measurements and placement in DD stairwell improved following fatalities.
- includes pictures showing best practice.

## RUB 2014

## RUB 2020

### 4.9 Grab handles on seat backs and elsewhere

### 4.10 Internal lighting

### 4.11 Security and safety

Information on:

- digital video recorders
- number and placement of CCTV cameras
- audio recordings
- driver's monitor
- telematics systems
- reversing system
- blind spot camera system
- tree guards
- counting system for DD buses

### 4.12 Heating, ventilation and air conditioning (HVAC)

### 4.13 Demisting

### 4.14 USB Power Ports

## 5. Communication

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### 5.1 Introduction

### 5.1 Requirements

- relating to communication with passengers and the driver.

### 5.2 Bus stopping signals

### 5.2 "Bus stopping" electronic signs and buttons

- updated to include placement and picture of stop button with braille.

### 5.3 External destination display – made into a table, interpretation deleted

### 5.3 External destination display

### 5.4 Internal information – made into a table

### 5.4 Exterior Promotional Area

### 5.5 Driver operational communication – moved to Section 4.2

### 5.5 Internal information – audio-visual announcements

RUB 2014	RUB 2020
<b>6. Facilities for passengers with impairments</b> – moved to Section 4.3	<b>6. Existing buses</b>
<b>6.1 Introduction</b> – section moved up to Section 4.3	<b>6.1 Introduction</b>
<b>6.2 Priority seating area</b> – moved to Section 4.3	<b>6.2 Existing bus standards</b>
<b>6.3 Wheelchairs</b> – moved to Section 4.4	<b>6.3 Midlife refurbishment requirements</b>
<b>6.4 Boarding and alighting</b> – moved to Section 3	
<b>6.5 Ramp</b> – moved to Section 3.1	
<b>7. Driver compartment</b> – moved to Section 4.1	<b>7. Appendix</b>
	7.1 Items not included
	7.2 Visual contrast (for floors and stanchions) <ul style="list-style-type: none"> <li>• updated references to the 'Blind Foundation' to 'Blind Low Vision NZ' to reflect their rebrand</li> <li>• updated Blind Foundation's accessible signage guidelines link</li> </ul>
	7.3 Bicycle racks
	7.4 Noise measurements
	7.4.1 External noise measurement for vehicles in motion
	7.4.2 Air brake noise measurement: Microphone positions from UN/ECE Reg. 51
	<b>7.5 Process for seeking a variation to these requirements</b>
	7.5.1 RUB and the Waka Kotahi procurement rules
	7.5.2 Rule
	7.5.3 Guidelines
	7.6 Bus condition assessment
<b>8. Existing buses</b> – moved to Section 6	
<b>8.1 Introduction</b> – moved to Section 6.1	
<b>8.2 Existing bus standards</b> – moved to 6.2	

**Appendix 1: Procurement variation application template** – moved to Section 7.5

**Appendix 2: Procurement variation – internal memo seeking approval template** –  
moved to Section 7.5