



# Matangi EMU - Fact Sheet

## The name Matangi:

Matangi means “wind” or “breeze” and was chosen as the winning name from a public competition. Greater Wellington wanted a new name for its trains to avoid nomenclature such as “the new EMUs” or the “Hyundai Rotem Mitsuis”.

## Purchaser:

Greater Wellington Rail Ltd  
(wholly owned subsidiary of  
Greater Wellington Regional Council)

## Supplier:

Hyundai Rotem / Mitsui

## Manufacture:

Changwon - South Korea

## Professional Services:

Halcrow and KiwiRail

## Delivery:

Commences in 2010

## Design Life:

30 years

## Supplier technical support period:

2011 to 2020

## Quantity ordered:

96 cars or 48 2-car units known as Electric Multiple Units (EMUs).  
The Matangi EMUs will be able to be configured as 2, 4, 6 or 8 car units.

## Increase in fleet capacity:

4744 seats **53%**  
8744 total (including standees) **51%**

## Current fleet capacity (2009):

Total EMU fleet capacity **8920 seats** + standees 8136 = 17056

- Ganz Mavag 88 cars (148 seats per 2-car) seats 6512 + standees 5896 = 12408
- English Electrics 37 cars (128 seats per 2-car, 200 seats per 3-car) 2408 seats + 2240 standees = 4648

## Post full Matangi fleet introduction capacity:

Total EMU fleet capacity **13664 seats** + 12136 standees = 25800

- Ganz Mavag 88 cars (148 seats per 2-car) seats 6512 + standees 5896 = 12408
- Matangi 96 cars (149 seats per 2-car) seats 7152 + standees 6240 = 13392

## Features:

- Modern stainless steel body
- Low floor boarding in one car and integrated ramps
- Fresh modern interior
- Sealed windows (quiet, clean interior)
- Air conditioning
- Doors operating on demand
- Open movement (ie. no doors) between the cars of a 2-car unit (see Figure 1.)
- Public Address system / Public Information System (automated visual and audio next station information) (see Figure 1.)
- CCTV
- Driver intercom (allowing direct communication with the driver in the case of emergency)
- Two dedicated wheelchair spaces in multi-function area (see Figure 8 and 9.)
- Dedicated cycle's space (up to three bikes) in multi-function area (see Figure 2 and 10.)
- Multi-function area also suitable for prams and other large bulky items (see Figures 7,8,9 and 10.)



**Design and Mock-up images:**



**Figure 1. Motor car**



Figure 2. Trailer Car (low floor area) note lack of steps at doorways

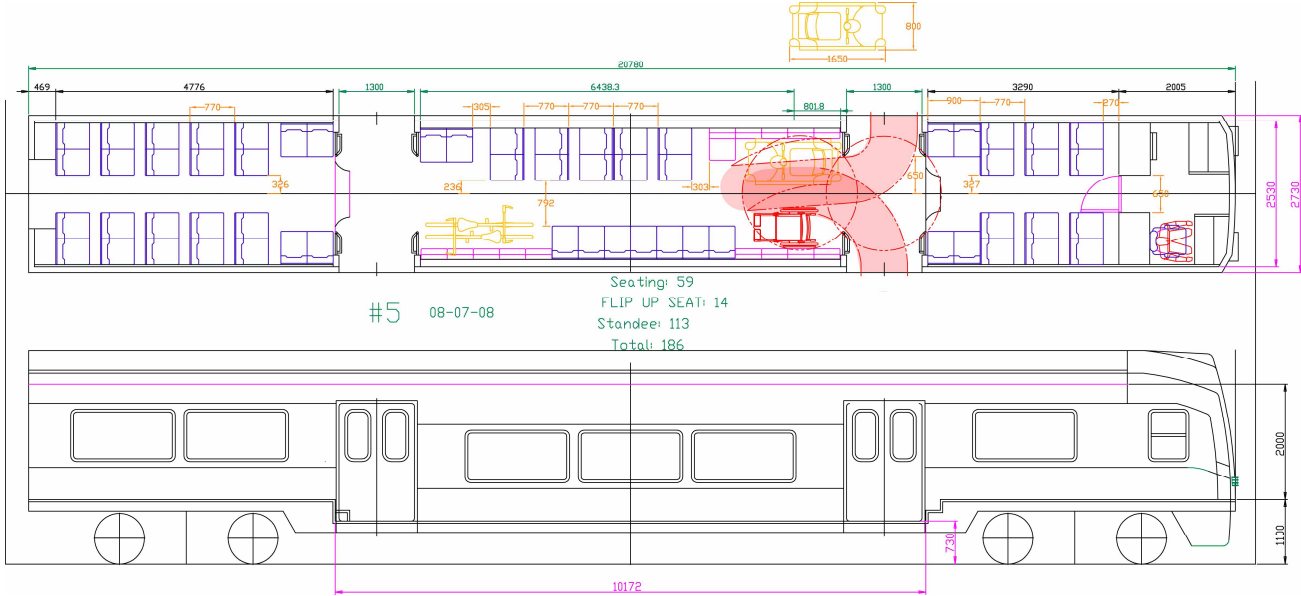


Figure 3. Trailer Car showing location of bikes and wheelchairs



Figure 4. The wooden 'mock-up' of half of the low floor trailer car at the Hutt Workshops



**Figure 5. Mock-up of the drivers desk**

**Figure 6. Testing one of the wheelchair ramp options**



**Figure 7. Double 'buggie' in low floor area**

**Figure 8. Wheelchair entering dedicated space**



**Figure 9. Mock-up showing cantilevered seat concept**



Figure 10. Mock-up showing storage option for bikes (up to 3 will likely be possible)



Figure 11. Mock-up of high floor seating area