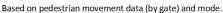
## **PLATFORM STOPS - PASSENGER AREA ASSESSMENT**



Fruin Level of Service based on Victorian Rail Industry Operators' Group Standards (VRIOGS).

# WANSEY ROAD - 2020

#### Alighting

100% of pedestrians via Gate 9 (southern end of stop)

Alighting (Average per LRV)	Platform Length (m)	Platform Width (m)	Space (m2/ped)	Platform Storage (Fruin LOS)	Ramp Access - if arrive by signals (Fruin LOS)
448	45	6.0	0.55	Е	Е
448	45	7.0	0.65	Е	D
448	45	8.0	0.75	Е	D
448	45	9.0	0.85	Е	D
300	45	6.0	0.83	Е	D
300	45	7.0	0.98	D	С
300	45	8.0	1.13	D	С
300	45	9.0	1.28	D	С

#### **Boarding**

100% of pedestrians via Gate 9 (southern end of stop)

Boarding (Average per LRV)	Platform Length (m)	Platform Width (m)	Space (m2/ped)	Platform Storage (Fruin LOS)	Ramp Access - if arrive by signals (Fruin LOS)
248	45	6.0	1.00	D	С
248	45	7.0	1.18	D	В
248	45	8.0	1.36	D	В
248	45	9.0	1.54	С	Α

Alighting volumes are higher than boarding volumes at Wansey Road.

Therefore, cover requirements for passengers waiting at the platform are not as high.

 $If each passenger takes up 1 sqm, this is approximately 250 sqm. \ A stop of 45m x 8.4m has an area of 378 sqm. \ Coverage would be 65\%.$ 

#### **ANZAC PARADE - 2020**

#### Alighting

100% of pedestrians via Uni Mall

Boarding (Average per LRV)	Platform Length (m)	Platform Width (m)	Space (m2/ped)	Platform Storage (Fruin LOS)	Ramp Access - if arrive by signals (Fruin LOS)
452	45	7.0	0.65	Е	D
452	45	8.0	0.75	E	D
300	45	7.0	0.98	D	С
300	45	8.0	1.13	D	С

#### **Boarding**

100% of pedestrians via Uni Mall

Boarding (Average per LRV)	Platform Length (m)	Platform Width (m)	Space (m2/ped)	Platform Storage (Fruin LOS)	Ramp Access - if arrive by signals (Fruin LOS)
617	45	4.4	0.28	F	F
617	45	5.0	0.33	F	Е
617	45	6.0	0.40	F	D
617	45	7.0	0.47	Е	D

#### 70% via Uni Mall (for boarding ramp calculations only)

Boardin (Averag per LRV	e Length	Platform Width (m)	Space (m2/ped)	Platform Storage (Fruin LOS)	Ramp Access - if arrive by signals (Fruin LOS)
432	45	4.4	0.00	0	D
432	45	5.0	0.00	0	D
432	45	6.0	0.00	0	С
432	45	7.0	0.00	0	С

### 30% via Uni Walk (for boarding ramp calculations only)

Boarding (Average per LRV)	Platform Length (m)	Platform Width (m)	Space (m2/ped)	Platform Storage (Fruin LOS)	Ramp Access - if arrive by signals (Fruin LOS)
185	45	4.4	0.00	0	В
185	45	5.0	0.00	0	Α
185	45	6.0	0.00	0	Α
185	45	7.0	0.00	0	

Boarding volumes are higher than alighting volumes at Wansey Road.

Therefore, cover requirements for passengers waiting at the platform are very high.

 $Maximum\ boarding\ passenger\ numbers\ will\ take\ up\ a\ significant\ area.\ A\ platform\ of\ 45m\ x\ 7.3m\ has\ an\ area\ of\ 330sqm.$ 

Even at 0.5sqm per passenger, they will take up the whole platform. Therefore, coverage should be for the full platform.

Fruin	Space	Density	Flow Rate
Level of Service	(m <sup>2</sup> /ped)	(ped/m <sup>2</sup> )	(ped/min/m)
LoS A	≥ 3.24	≤ 0.27	≤23
LoS B	2.32 to 3.24	0.43 to 0.31	23 to 33
LoS C	1.39 to 2.32	0.72 to 0.43	33 to 49
LoS D	0.93 to 1.39	1.08 to 0.72	49 to 66
LoSE	0.46 to 0.93	2.17 to 1.08	66 to 82
LoS F	< 0.46	> 2.17	variable

TraffixGroup