



## CMF / CRF Details

CMF ID: 8487

### Install Platform Tram Stops

**Description:** Platform stops improve this situation through the provision of passengers platforms raised to the level of low floor trams next to the tracks in the middle of the road. Passengers access the platform using signal controlled pedestrian crossings. On roads with lower traffic levels, platforms are accessed via zebra crossings at the ends of the platform.

**Prior Condition:** safety zone tram stops

**Category:** Transit

**Study:** [Safety impacts of platform tram stops on pedestrians in mixed traffic operation: A comparison group before–after crash study, Naznin et al., 2015](#)

Star Quality Rating:



[\[View score details\]](#)

### Crash Modification Factor (CMF)

**Value:** 0.159

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.067

### Crash Reduction Factor (CRF)

<b>Value:</b>	84.1 (This value indicates a <b>decrease</b> in crashes)
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	6.7

### Applicability

<b>Crash Type:</b>	Vehicle/pedestrian
<b>Crash Severity:</b>	K (fatal),A (serious injury)
<b>Roadway Types:</b>	All
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Urban
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	Not specified

### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

### Development Details

<b>Date Range of Data Used:</b>	
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<b>Municipality:</b>	Melbourne
<b>State:</b>	
<b>Country:</b>	Australia
<b>Type of Methodology Used:</b>	Other before/after
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Mar-13-2017
<b>Comments:</b>	CMF of pedestrian-vehicle fatal and serious injury crashes without considering passenger increment after replacing safety zone tram stops with platform stops. This study used before-after using comparison group and was adjusted by passenger volumes.

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