



Image source: Safe System Solutions Pty Ltd

FACTSHEET 10

STAGGERED T-INTERSECTIONS

Staggered T-intersections have been widely used to improve safety at regional and remote cross-road intersections. While safety can be improved due to the removal of some conflict points and the elimination of a see-through effect, the core mechanisms of harm are not addressed. For this reasons, severe crash outcomes can still be expected.

Application

The application of a staggered T-intersection should only be considered after other design solutions have been evaluated. If applied, staggered T-intersections should have:

- Low major road traffic volumes (< 2000 vehicles per day)
- No significant curvature of the minor road approaches
- Stagger distance > 15 m
- Advance warning signs on the major road

Implementation considerations

- While a left-right stagger arrangement is the preferred stagger configuration, the stagger direction may be influenced by constraints such as skewed minor road approaches.
- A right-left stagger arrangement requires right turns from the minor road. Right turns from a minor road are typically subject to greater delay than left turns. A right-left stagger may not be suitable if rights turns are subject to excessive delay.

Safe system category

Supporting

Effectiveness

Eliminates crashes involving through movements from minor roads only.

Target road user groups

Passenger Vehicles, Motorcyclists, Heavy Vehicles

Target crash type

Intersection

Indicative cost

Highly variable.



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