

# Guideline Temporary Rumble Strips

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# **Document Control**

Owner	Manager Road Safety
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# Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
0	July 2018	Guideline Issued	All

### 1 PURPOSE

The purpose of this document is to detail Main Road requirements for the use of temporary rumble strips.

Main Roads primary objective of this guideline is to allow practitioners to determine how temporary rumble strips may be used to improve the safety of road workers, traffic controllers and/or road users. Rumble strips are a road safety feature used to alert inattentive drivers by causing a tactile vibration and audible rumbling transmitted through the wheels into the vehicles interior.

### 2 APPLICATION GUIDELINES

#### 2.1 General

Temporary rumble strips may be installed to help make motorists aware of the following:

- On the approach to the reduced roadwork speed limit of 60 km/h or 40 km/h;
- On the approach to a traffic controller or temporary traffic control device (e.g. temporary traffic signal);
- On the approach to the end of the queue at traffic control locations;
- On the approach to a lane closure.

Rumble strips may also be used wherever a risk assessment by a qualified person determines installing temporary rumble strips will increase the safety of workers, traffic controllers and/or road users.

#### 2.1.1 Installation

Rumble strips shall only be installed where the following conditions are met:

- Speed limit less than 80 km/h (may be temporary or permanent speed limit), and
- Minimum visibility distance of 80 m to the rumble strips.

Rumble strips shall not be installed on curves or at other locations where lateral surface friction is critical.

Safe work practices shall be followed when installing and removing the rumble strips taking into consideration manual handling and traffic risks. Where there are insufficient gaps in traffic to safely allow the installation or removal of the strips the following shall be undertaken:

- Two lane two way roads provide a traffic controller to stop traffic while the rumble strips are installed/removed
- Multi-lane roads close the traffic lane using a vehicle with mounted flashing arrow sign to shadow workers installing/removing the rumble strips
- High speed, high volume multi-lane roads a TMA should be used to protect workers installing/removing the rumble strips

The installation and removal method shall be included on a Traffic Guidance Scheme.

#### 2.1.2 Spacing of Strips

It is recommended that 3 strips are installed with each strip should being placed at decreasing spacing in the direction of travel, 6 m and 3 m apart (see appendix 1).

#### 2.1.3 Signage Requirements

Where rumble strips are installed at roadwork sites, position the advance warning rumble strip signs (MMS-ADV-80 and MMS-ADV-81) a distance equal to that shown in table 1 in advance of the rumble strips to warn motorists of the rumble strip ahead.



#### Table 1: Advanced sign position

Speed of traffic (km/h)	Distance (m)
50 or less	15
60	45
70 or more	Equal to speed of traffic in km/h

#### 2.1.4 Monitoring

It is recommended that road user behaviour at the rumble strips is monitored. In some cases on two lane two way roads, road users have tried to avoid the rumble strips by driving into oncoming traffic. A row of cones may be installed on the centreline in advance of the rumble strips with narrow hazard marker (MR-TAW-39) at the start of the row to direct road users to the correct travel path.



#### 2.1.5 Approval

Only approved temporary rumble strips shall be used and installed in accordance with manufacturer's requirements. Road Authority approval is required whenever temporary rumble strips are used. This shall be shown in a Traffic Guidance Scheme that forms part of a Traffic Management Plan.

Rumble strips shall be yellow.

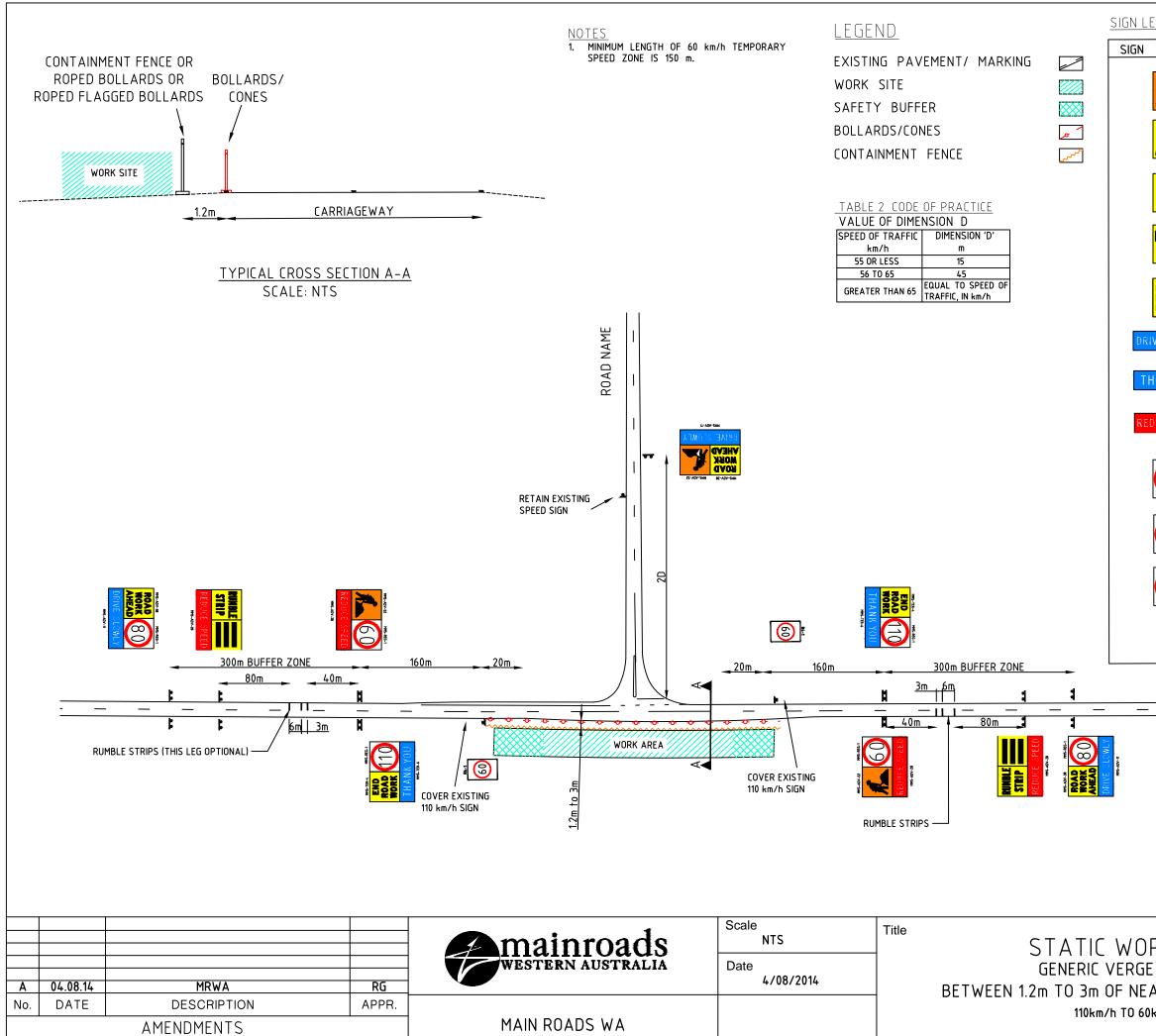
### 3 **REFERENCES AND RELATED DOCUMENTS**

AS1742.3: Manual of Uniform Traffic Control Devices Part 3: Traffic Control Works on Roads.

Traffic Management for Works on Roads Code of Practice

## 4 **APPENDICES**

Appendix	Title
Appendix 1	Example Traffic Guidance Schemes



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