



Share your feedback about this standard. Scan the QR code on your phone or click/ enter the link to take the survey [feedback.standards.org.au/1742.7:2016](http://feedback.standards.org.au/1742.7:2016)

**AS 1742.7:2016**  
(Incorporating Amendment No. 1)

AS 1742.7:2016



## **Manual of uniform traffic control devices**

### **Part 7: Railway crossings**



This Australian Standard® was prepared by Committee MS-012, Road Signs and Traffic Signals. It was approved on behalf of the Council of Standards Australia on 11 February 2016.

This Standard was published on 21 March 2016.

---

The following are represented on Committee MS-012:

- ARRB Group—Australian Road Research Board
- Association of Consultants in Access Australia
- Australian Automobile Association
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Motorcycle Council
- Austroads (Representative from VicRoads)
- Department of Lands, Planning and the Environment, NT
- Department of Territory and Municipal Services ACT
- Department of Transport and Main Roads, Qld
- Institute of Public Works Engineering Australasia
- Main Roads Western Australia
- Rail Industry Safety and Standards Board
- Roadmarking Industry Association of Australia
- Roads and Maritime Services, NSW

Additional Interests:

- Australian Level Crossing Assessment Model (ALCAM) Committee
- 

This Standard was issued in draft form for comment as DR2 AS 1742.7:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

---

### **Keeping Standards up-to-date**

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting [www.standards.org.au](http://www.standards.org.au)

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.org.au](mailto:mail@standards.org.au), or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

**AS 1742.7:2016**  
(Incorporating Amendment No. 1)

**Australian Standard<sup>®</sup>**

**Manual of uniform traffic control devices**  
**Part 7: Railway crossings**

Originated as AS CA14—1935.  
Previous edition AS 1742.7—2007.  
Fourth edition AS 1742.7:2016.  
Reissued incorporating Amendment No. 1 (January 2019).

**COPYRIGHT**

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 429 9

## PREFACE

This Standard was prepared by the Standards Australia Committee MS-012, Road Signs and Traffic Signals, to supersede AS 1742.7—2007. It is Part 7 in a series of fourteen Standards which together form the *Manual of uniform traffic control devices*. The series comprises the following Standards:

### AS

1742	Manual of uniform traffic control devices
1742.1	Part 1: General introduction and index of signs
1742.2	Part 2: Traffic control devices for general use
1742.3	Part 3: Traffic control devices for works on roads
1742.4	Part 4: Speed controls
1742.5	Part 5: Street name and community facility name signs
1742.6	Part 6: Tourist and services signs
1742.7	Part 7: Railway crossings (this Standard)
1742.9	Part 9: Bicycle facilities
1742.10	Part 10: Pedestrian control and protection
1742.11	Part 11: Parking controls
1742.12	Part 12: Bus, transit, tram and truck lanes
1742.13	Part 13: Local area traffic management
1742.14	Part 14: Traffic signals
1742.15	Part 15: Direction signs, information signs and route numbering

*This Standard incorporates Amendment No. 1 (January 2019). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

This revised Standard results from ongoing review by both road authorities and railway companies of the safety requirements at railway crossings.

In addition to clarifications and general improvements, a key change in this revised Standard is that there is a greater emphasis on cooperation between rail companies and road authorities, e.g. through level crossing interface agreements (where they exist). It also provides more information in the appendices, particularly at Appendix D (sight distances), across a range of vehicle types, grades and driving behaviours such that safety decisions can be more risk-based.

The relationship between Australian Standards and publications produced by Austroads should be noted. Australian Standards provide specifications and procedures that ensure that products and services are safe and reliable, and consistently perform the way they are intended. Austroads provides guidance documents that deal with the design, construction maintenance and operation of the road network. Austroads documents are also used by road authorities in New Zealand.

In cases of similar subject matter, Australian Standards and Austroads documents aim to provide information that is consistent, complimentary and supportive of the other. This is the case with the following documents: Austroads, *Guide to Road Safety*, Part 3: *Speed Limits and Speed Management*, Austroads, *Guide to Traffic Management*, Part 5: *Road Management*, and Australian Standard AS 1742.4, *Manual of uniform traffic control devices*, Part 4: *Speed controls*.

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

## CONTENTS

	<i>Page</i>
FOREWORD.....	5
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	6
1.2 OBJECTIVE.....	6
1.3 APPLICATION.....	6
1.4 REFERENCED DOCUMENTS.....	6
1.5 DEFINITIONS.....	7
1.6 COOPERATION BETWEEN ROAD AUTHORITIES AND RAIL INFRASTRUCTURE MANAGERS.....	8
1.7 RESTRICTED ACCESS ROAD VEHICLES.....	9
SECTION 2 SIGNS, DEVICES AND ASSEMBLIES—DESCRIPTION AND USE	
2.1 GENERAL.....	10
2.2 PASSIVE CONTROL DEVICES.....	12
2.3 ACTIVE CONTROL DEVICES.....	16
2.4 DEVICES USED AT EITHER ACTIVE OR PASSIVE CONTROL CROSSINGS ..	21
SECTION 3 PAVEMENT MARKINGS	
3.1 GENERAL.....	24
3.2 RAILWAY CROSSING PAVEMENT MARKING (RAIL X).....	24
3.3 STOP LINE.....	24
3.4 GIVE-WAY LINE.....	24
3.5 NO-OVERTAKING LINES.....	25
3.6 YELLOW BOX MARKINGS.....	27
SECTION 4 APPLICATION OF SIGNS AND MARKINGS TO RAILWAY CROSSINGS	
4.1 GENERAL.....	28
4.2 PASSIVE CONTROL TREATMENTS.....	28
4.3 ACTIVE CONTROL TREATMENTS.....	30
4.4 MODIFIED TREATMENTS.....	31
4.5 TEMPORARY AND EMERGENCY CONTROL.....	31
4.6 RAILWAY LINE NOT IN USE.....	32
4.7 RAILWAY LINE CLOSED.....	32
SECTION 5 AVOIDANCE OF TRAFFIC QUEUING ON CROSSINGS	
5.1 IDENTIFYING THE PROBLEM.....	43
5.2 ELIMINATING THE PROBLEM.....	43
5.3 MANAGING THE PROBLEM.....	43
5.4 SHORT STACKING.....	44
SECTION 6 PEDESTRIAN AND BICYCLE TREATMENTS AT RAILWAY CROSSINGS	
6.1 GENERAL.....	45
6.2 HIERARCHY OF CONTROL.....	45
6.3 CROSSING ELEMENTS—DESIGN AND PERFORMANCE REQUIREMENTS ..	46
6.4 PEDESTRIAN HOLDING MARKINGS.....	49
6.5 SIGNS AND SIGNALS.....	50
6.6 FACILITIES FOR BICYCLES.....	52

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-