

AS 3860—1991

Australian Standard[®]

Fixed guideway people movers

This Australian Standard was prepared by Committee ME/66, Fixed Guideway People Movers. It was approved on behalf of the Council of Standards Australia on 6 September 1990 and published on 11 February 1991.

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Australian Assembly of Fire Authorities
Australian Electrical and Electronic Manufacturers Association Limited
Confederation of Australian Industry
Department of Employment, Vocational Education, Training and Industrial Relations, Qld
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This Standard was issued in draft form for comment as DR 89117.

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First published as AS 3860—1991.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 6562 4

PREFACE

This Standard was prepared by the Standards Australia Committee on Fixed Guideway People Movers. The Standard was requested by government instrumentalities and private organizations to provide recommendations covering construction and safety aspects of fixed guideway people movers.

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CONTENTS

	<i>Page</i>
FOREWORD	5
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	6
1.2 APPLICATION	6
1.3 REFERENCED DOCUMENTS	6
1.4 DEFINITIONS	7
1.5 CLASSIFICATION	7
SECTION 2 OPERATING REQUIREMENTS	
2.1 GENERAL	9
2.2 SAFETY CRITERIA	9
2.3 OPERATING SAFETY PLAN (OSP)	9
2.4 RETENTION OF VEHICLES ON GUIDEWAY	9
2.5 PARAMETERS OF VEHICLE MOTION	10
2.6 CONTROL OF VEHICLE MOVEMENTS	13
2.7 FAILURE RECOVERY PROCEDURES	14
2.8 EMERGENCY PROCEDURES	14
SECTION 3 STATIONS	
3.1 GENERAL	16
3.2 CONSTRUCTION	16
3.3 VENTILATION	16
3.4 BARRIERS	16
3.5 EMERGENCY EXITS	17
3.6 FIRE CONTROL	17
SECTION 4 GUIDEWAYS	
4.1 GENERAL	18
4.2 IMPACT PROTECTION	18
4.3 ACCESS CONTROL	18
4.4 SPECIAL REQUIREMENTS	18
SECTION 5 VEHICLES	
5.1 GENERAL	19
5.2 CONSTRUCTION	19
5.3 PASSENGER ACCESS AND ACCOMMODATION	19
5.4 ON-BOARD MOTIVE POWER SYSTEMS	20
5.5 REQUIREMENTS FOR PARTICULAR MOTIVE POWER SYSTEMS	20
5.6 REMOTE MOTIVE POWER SYSTEMS	21
5.7 ANCILLARY EQUIPMENT	22
5.8 BRAKING SYSTEMS	22
5.9 SPECIAL FEATURES	23
SECTION 6 ELECTRICAL EQUIPMENT	
6.1 GENERAL	24
6.2 POWER DISTRIBUTION TO VEHICLES	24
6.3 EQUIPMENT IN CARS	24
SECTION 7 TESTING	
7.1 GENERAL	25
7.2 DYNAMIC TESTING	25
7.3 ELECTRICAL TESTING	25
7.4 TEST CERTIFICATE	25

SECTION 8 OPERATION AND MAINTENANCE

8.1	GENERAL	26
8.2	CERTIFICATION OF DRIVERS, ATTENDANTS AND CONTROLLERS	26
8.3	SUPERVISION AND CONTROL OF VEHICLE DESPATCH	26
8.4	MAINTENANCE PROCEDURES (Technical)	26
8.5	VEHICLE MAINTENANCE SECTION(S)	27
8.6	MAINTENANCE (Non-Technical)	27
8.7	RECORDING OF MAINTENANCE ACTIVITIES	27

SECTION 9 EMERGENCY PROCEDURES

9.1	GENERAL	28
9.2	EMERGENCIES	28
9.3	EMERGENCY PROCEDURE PLAN	28
9.4	PARTICIPATING EMERGENCY SERVICES	28
9.5	CENTRAL SUPERVISING STATION (CSS)	28
9.6	LIAISON	29
9.7	TRAINING, EXERCISES, DRILLS, AND CRITIQUES	29
9.8	PARTICULAR CONSIDERATIONS	29

SECTION 10 COMMUNICATION

10.1	GENERAL	30
10.2	COMMUNICATION BETWEEN CENTRAL SUPERVISING STATION AND DRIVERS AND ATTENDANTS	30
10.3	PUBLIC ADDRESS	30

APPENDIX A	IMPLEMENTATION CHECKLIST FOR COMMON DESIGNS	31
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FOREWORD

This Standard has no legal authority in its own right but may acquire legal standing in one or more of the following ways:

- (a) Adoption by a regulatory authority.
- (b) Reference to compliance with the Standard as a contract requirement.
- (c) Claim by a manufacturer or manufacturer's agent of compliance with the Standard.

This Standard should assist in the achievement of an acceptable level of safety during construction, commissioning and operation of fixed guideway people movers. It is also intended to provide guidelines for new or emerging technologies for which no adequate safety Standards or regulations exist.

As this Standard places emphasis on safety requirements, there is a need to ensure that where tests are recommended that they are carried out under representative environmental conditions.

STANDARDS AUSTRALIA

Australian Standard
Fixed Guideway People Movers

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out requirements for the design, manufacture, construction, commissioning, operation, and maintenance of fixed guideway people mover systems.

The following are excluded from the Standard:

- (a) Amusement rides such as roller coasters, ghost trains and miniature railway systems.
- (b) Goods only vehicles.
- (c) Lifts, bridge and gantry cranes and builders' hoists.
- (d) Conventional railways, light rail and tramways.
- (e) Aerial funiculars.
- (f) Escalators and moving walkways.
- (g) Mine winder systems.
- (h) Busways when not guided.

NOTE: A checklist covering design parameters to be considered is given in Appendix A.

1.2 APPLICATION This Standard is intended to assist—

- (a) manufacturers in producing satisfactory fixed guideway people movers;
- (b) authorities in establishing safety requirements; and
- (c) operators in the safe operation and maintenance of fixed guideway people movers.

1.3 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1170	SAA Loading Code
1170.2	Part 2: Wind loads
1200	SAA Boiler Code
1210	SAA Unfired Pressure Vessels Code
1217	Acoustics—Determination of sound power levels of noise sources
1217.5	Part 5: Engineering methods for free-field conditions over a reflecting plane
1269	Acoustics—Hearing conservation
1359	Rotating electrical machines—General requirements
1418	SAA Crane Code
1418.12	Part 12: Crane collector systems
1530	Methods for fire tests on building materials, components and structures
1530.1	Part 1: Combustibility tests for materials
1530.4	Part 4: Fire-resistance test of elements of building construction
1657	SAA Code for Fixed Platforms, Walkways, Stairways and Ladders
1680	Code of practice for interior lighting and the visual environment
1735	SAA Lift Code
1735.8	Part 8: Inclined lifts
1775	Low voltage switchgear and controlgear—Air-break switches, isolators and fuse-combination units (up to and including 1000 V a.c. and 1200 V d.c.)
1800	The selection, care and use of industrial safety helmets
1801	Industrial safety helmets
1891	Industrial safety belts and harnesses
1939	Classification of degrees of protection provided by enclosures for electrical equipment
2067	Switchgear assemblies and ancillary equipment for alternating voltages above 1 kV
2080	Safety glass for land vehicles
2279	Disturbances in mains supply networks
2279.2	Part 2: Limitation of harmonics caused by industrial equipment