

Australian/New Zealand Standard™

Safety of machinery

**Part 3610: Conveyors—General
requirements**



AS/NZS 4024.3610:2015

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-041, Safety of Machinery. It was approved on behalf of the Council of Standards Australia on 10 August 2015 and on behalf of the Council of Standards New Zealand on 2 July 2015.

This Standard was published on 21 August 2015.

The following are represented on Committee SF-041:

Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Manufacturing Workers Union
Department of Trade and Investment, Regional Infrastructure and Services, NSW
Engineers Australia
Human Factors and Ergonomics Society of Australia
Institute of Instrumentation, Control and Automation Australia
National Safety Council of Australia
New Zealand Electrical Institute
Safety Institute of Australia
Winery Engineering Association
WorkCover New South Wales
Worksafe New Zealand
WorkSafe Victoria

Keeping Standards up-to-date

Standards are living documents which 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 Standards may also be withdrawn.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 which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia Web Site at www.standards.org.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR AS/NZS 4024.3610.

AS/NZS 4024.3610:2015

Australian/New Zealand Standard™

Safety of machinery

Part 3610: Conveyors—General requirements

Originated in Australia as part of AS C215—1971.
Previous edition part of AS 1755—2000.
Jointly revised in part and redesignated as AS/NZS 4024.3610:2015.

COPYRIGHT

© Standards Australia Limited/Standards New Zealand

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 (Australia) or the Copyright Act 1994 (New Zealand).

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-041, Safety of Machinery, to supersede (in part) AS 1755—2000, *Conveyors—Safety requirements*.

The objective of this Standard is to apply the principles articulated in the AS 4024.1 series of Standards to conveyors and to protect workers and other persons against harm to their health, safety and welfare through the elimination or minimization of lifecycle risks associated with conveyor systems.

This Standard comprises the safety measures to be implemented for the lifecycle of conveyors and conveyor systems, both above ground and underground and the necessary risk controls against hazards experienced by operators of such plant.

The revision of this Standard covers the general safety requirements for large and small conveyors and conveyor systems. Technical and editorial revisions have been incorporated in line with available ISO documentation for mechanical handling equipment.

Major changes include—

- (a) the inclusion of risk management concepts;
- (b) the inclusion of hazards relating to conveyors;
- (c) contemporizing guarding requirements and providing clarity;
- (d) alignment with the AS 4024 series of Standards;
- (e) lifecycle management of conveyors; and
- (f) contemporizing of electrical requirements and conveyor control/protection.

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 provided 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.....	6
1.6 RISK MANAGEMENT	12
SECTION 2 REQUIREMENTS FOR DESIGN	
2.1 GENERAL.....	15
2.2 DESIGN RISK ASSESSMENT	16
2.3 ENVIRONMENTAL CONTROL	19
2.4 DESIGN FOR OPERABILITY AND MAINTAINABILITY	20
2.5 SYSTEMS TO STOP AND HOLD A CONVEYOR	23
2.6 ENERGY AND ISOLATION	24
2.7 STRUCTURAL REQUIREMENTS	27
2.8 ELECTRICAL REQUIREMENTS	27
2.9 ILLUMINATION	27
2.10 CONVEYOR CONTROL.....	27
2.11 EXPLOSION AND FIRE PROTECTION	36
2.12 MARKINGS, SIGNS AND IDENTIFICATION	38
2.13 SAFEGUARDS	39
SECTION 3 REQUIREMENTS FOR SPECIFIC LOCATIONS	
3.1 TUNNELS, GALLERIES, PITS, CONFINED SPACES AND HAZARDOUS AREAS	55
3.2 UNDERGROUND COAL MINES	55
SECTION 4 INSTALLATION, COMMISSIONING AND DISMANTLING	
4.1 GENERAL.....	57
4.2 COMMISSIONING PLAN.....	57
4.3 COMMISSIONING CRITERIA	58
4.4 COMMISSIONING RECORDS	58
SECTION 5 OPERATION	
5.1 GENERAL.....	59
5.2 STANDARD OPERATING GUIDELINES.....	60
5.3 TRAINING	61
SECTION 6 MAINTENANCE	
6.1 GENERAL.....	62
6.2 MAINTENANCE MANAGEMENT	62
6.3 MAINTENANCE PROCEDURES	63
6.4 PLANT SAFETY FILE	64
6.5 MAINTENANCE DOCUMENTATION	64

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](#)
-