



Train Axle Bearings

Engineering Standard

Rail Commissioner

RS1-DOC-000373

DOCUMENT AMENDMENT RECORD

REVISION	CHANGE DESCRIPTION	DATE	PREPARED	REVIEWED	APPROVED
0	First release	Aug 2013	Kuldeep Zala Drew Fenton	Keith Charlton Peter Haskard	Brian Green
1	Minor changes in sections 1.2, 1.3 and 2	Nov 2013	Kuldeep Zala Drew Fenton	Keith Charlton Peter Haskard	Brian Green
2	Updated in line AS 7516:2014	Nov 2018	Kuldeep Zala	Peter Lindqvist	Gary Webb
3	Update to the new DIT template + review	Mar 2026	Carl Parr	Naveen Sulake	Gary Webb
Document Review Schedule: This document is due for review every 5 years or as required					

TABLE OF CONTENTS

1. Introduction	4
2. Purpose	4
3. Scope	4
4. References.....	4
5. Acronyms	4
6. Australian Standard for Axle Bearings.....	4
7. DIT Addendum to Australian Standard.....	4
7.1. Section 3.2 (Design and manufacture - Roller axle bearings) Clause 5.....	4

1. Introduction

The Department for Infrastructure and Transport (The Department) manages and operates the Adelaide Metropolitan Passenger Railway Network (AMPRN) under the Rail Accreditation assigned to The Rail Commissioner (RCom). Rail Safety National Law (RSNL) (South Australia) Act 2012 requires RCom to have a structured and disciplined approach to the management of the asset lifecycle. This standard is part of the engineering management system used to ensure safety and customer service levels are efficiently and effectively supported.

2. Purpose

The purpose of this standard is to provide technical requirements for axle bearings design, use, maintenance and overhaul on AMPRN train rolling stock.

3. Scope

This standard applies to all train passenger rolling stock operating on the AMPRN.

4. References

- Rail Safety National Law (SA) Act 2012
- AS/RISSB 7516:2014 Rolling Stock Standard Axle Bearings

5. Acronyms

ACRONYM	FULL NAME
DIT	Department for Infrastructure and Transport
AMPRN	Adelaide Metropolitan Passenger Rail Network

6. Australian Standard for Axle Bearings

DIT adopts all mandatory requirements as specified in AS/RISSB 7516:2014 Railway Rolling Stock – Axle Bearings unless modified as shown in Section 7.

DIT adopts all recommended requirements as specified in AS/RISSB 7516:2014 Railway Rolling Stock – Axle Bearings as mandatory, unless modified as shown in Section 7. If the applicable clause contains the word should, it is to be read as the word shall. This is to eliminate any doubt as to the requirements of the clause.

7. DIT Addendum to Australian Standard

DIT modifies the following requirements contained within AS/RISSB 7516:2014.

7.1. Section 3.2 (Design and manufacture - Roller axle bearings) Clause 5

Taper or spherical roller axle bearings shall be used.