AS 2933—1987

Australian Standard®

SHIPBUILDING—
PILOT LADDERS

This Australian standard was prepared by Committee ME/59, Shipbuilding. It was approved on behalf of the Council of the Standards Association of Australia on 11 February 1987 and published on 4 May 1987.

The following interests are represented on Committee ME/59:

American Bureau of Shipping
Association of Australian Port and Marine Authorities
Australian Chamber of Shippings
Australian Fishing Industry Council
Australian Shipbuilders Association
Bureau Veritas
Department of Defence
Department of Transport
Det norske Veritas
Institute of Marine Engineers
Lloyds Register of Shipping
Royal Institution of Naval Architects

This standard was issued in draft form for comment as DR 86057.

AS 2933—1987

Australian Standard®

SHIPBUILDING—
PILOT LADDERS

First published as part of AS 1267 1975
Revised and redesignated as AS 2933 1987

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140
ISBN 0 7262 4583 6

PREFACE

This standard was prepared by the Association's Committee on Shipbuilding. It is identical with and has been reproduced from ISO 799-1986, Shipbuilding—Pilot Ladders. It supersedes (in part) AS 1267—1975, Ships Pilot and Embarkation Ladders.

The purpose of this standard is to specify requirements for a pilot ladder which is provided for a pilot to embark and disembark safely.

For the purpose of this Australian standard, the text of the ISO Standard used herein should be modified as follows:

(a) *Terminology.* The words 'Australian standard' should replace the words 'International Standard' wherever they appear.

(b) *Cross-references.* The reference to International Standard ISO 1461, Metallic Coatings—Hot Dip Galvanized Coatings on Fabricated Ferrous Products—Requirements, should be replaced by reference to AS 1214, Hot-dip Galvanized Coatings on Threaded Fasteners (ISO Metric Coarse Thread Series).

CONTENTS

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

SHIPBUILDING—PILOT LADDERS

1 Scope and field of application

This International Standard specifies requirements for a ship's pilot ladder which is provided for a pilot to embark and disembark safely.

2 References

ISO 1181, *Three- or four-strand manila and sisal ropes.*

ISO 1461, *Metallic coatings — Hot dip galvanized coatings on fabricated ferrous products — Requirements.*

ISO 7040, *Prevailing torque type hexagon nuts (with non-metallic insert), style 1 — Property classes 5, 8 and 10.*

ISO 7089, *Plain washers — Normal series — Product grade A.*

3 Dimensions

The dimensions of the assembled pilot ladder and of the components shall be in accordance with figures 1 to 6.

4 Materials

4.1 The materials of components shall be in accordance with table 1. Metal parts shall not be used in the pilot ladder construction, except for items 5, 9, 10 and 11 of table 1.

4.2 Steps, spreader steps, replacement step, replacement spreader step and split distance pieces shall each be made of hardwood (ash, oak, elm, beech or teak) free from knots, or from other materials having equivalent relative density, strength, durability and buoyancy. The lowest four steps may be made of rubber of sufficient strength and stiffness, or of other suitable material of equivalent characteristics. Steps and spreaders shall have an efficient non-slip surface.

4.3 The seizing for side ropes shall consist of two- or three-ply marline of minimum breaking strength 800 N, or other suitable material of equivalent strength.

5 Construction

5.1 The pilot ladder shall be assembled in accordance with figure 1 and table 2 to have an equal step spacing of 310 ± 5 mm.

5.2 Steps shall be constructed from one piece to the dimensions given in figure 2. Their non-slip upper surfaces shall be provided by either

a) longitudinal grooving, or

b) the application of an approved non-slip coating.

5.3 Spreader steps shall be constructed from one main bar and two split distance pieces to the dimensions given in figure 4, held firmly together by four M5 cup square bolts, washers and prevailing torque nuts. Metal parts shall be galvanized in accordance with ISO 1461. Spreaders shall be positioned in accordance with table 2.

Table 1 — Components and materials

Item	Component	Material	Specification
1	Step	Hardwood	See 4.2
2	Spreader step	Hardwood	See 4.2
3	Side ropes	Manila	ISO 1181, Quality 1
4	Side rope seizing	Marline	See 4.3
5	Fibre rope thimble	Steel, galvanized	Nominal size 20
6	Extension service rope	Manila	ISO 1181, Quality 1
7	Replacement step	Hardwood	See 4.2
8	Replacement spreader	Hardwood	See 4.2
9	Cup square bolt	Steel, galvanized	M5
10	Washer	Steel, galvanized	ISO 7089-5-140 HV
11	Prevailing torque nut	Steel, galvanized	ISO 7040-M5-5-NF