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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 45903.1-2025

**Ships and marine technology - Pilot ladders - Part 1: Design
and specification**

船舶与海上技术 引航员软梯 第1部分：设计与规范

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 45903 "Ship and Maritime Technology Pilot Ladder". GB/T 45903 has been published in Lower part.

- Part 1: Design and specifications;
- Part 2: Maintenance, use, survey and inspection;
- Part 3: Accessories and related equipment.

This document is equivalent to ISO 799-1:2019 "Ships and marine technology - Pilot ladders - Part 1: Design and specifications".

Introduction

The pilot ladder is a key device for safe transfer between the ship and the pilot. Its correct setting is directly related to the safety of personnel life and navigation.

GB/T 45903 "Ship and Maritime Technology Pilot Ladder" stipulates the design, maintenance, The design, production and maintenance of pilot ladders are regulated by the following three parts. composition.

- Part 1: Design and Specifications. The purpose is to determine the requirements for pilot ladders to ensure that maritime pilots can Straight hull plating is required for safe embarkation and disembarkation.
- Part 2: Maintenance, use, survey and inspection. The purpose is to determine the maintenance, use, storage and inspection requirements of pilot ladders. Ask for and advice.
- Part 3: Accessories and related equipment. The purpose is to determine the

requirements and recommendations for pilot ladder accessories and related equipment, and to Use the provided instructions.

1 Scope

This document specifies the requirements for pilot ladders to ensure that maritime pilots can board and navigate safely along the hull plating perpendicular to the water surface. Some requirements for leaving the ship.

This document is applicable to merchant ships underway to ensure the safe embarkation and disembarkation of maritime pilots.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 3681.2-2021 Plastics solar radiation exposure test method Part 2: Direct natural weathering and exposure to window Post-weathering aging of glass (ISO 877-2:2009, IDT)

ISO 1181:2004 Fibre ropes-Manila and sisal-3-,4- and 8-strand ropes and 8-strand ropes)

Note: GB/T 15029-2009 Sisal white hemp rope (ISO 1181:2004, NEQ)

Note: GB/T 13912-2020 Technical requirements and test methods for hot-dip galvanized coatings on steel products (ISO 1461:2009, MOD)

ISO 15510:2014 Stainless steel - Chemical composition There are no terms or definitions that require definition in this document.

4.1 Wooden parts

Each wooden part shall be made of knot-free hardwood (ash, oak, beech, teak and other hardwoods with equivalent properties).

The wood must not be treated or coated with paint, varnish or other coatings that would alter the surface friction of the wooden parts or obscure the natural grain.

4.2.1 General requirements

Each side rope shall be mildew-proof white hemp rope conforming to ISO 1181:2004 quality grade 1, or spun thermosetting polyester rope.

Thermosetting polyester rope has a polypropylene fiber core with different colors. The

breaking strength of each side rope should be no less than 24kN, and the diameter of the side rope should be