

ICS 47.020.10  
CCS U 26



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

**GB/T 23425-2026**

Replacing GB/T 23425-2009

---

**Shipbuilding - Guardrails for cargo ships**

造船 货船栏杆

**(English Translation)**

**Issued on: July 2, 2026**

**Implemented on: November 1, 2026**

---

**Issued by: State Administration for Market Regulation**

## Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions

### Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 23425-2009 "Shipbuilding and Cargo Ship Railings". Compared with GB/T 23425-2009, except for structural adjustments and rewriting...

Aside from the logical changes, the main technical changes are as follows.

- a) The outer diameter of the handrail and the diameter of the crossbar have been changed (see 5.3, 2009 edition 5.3);
- b) The support dimensions have been changed (see 5.4, 2009 edition of 5.4);
- c) A method for calculating the section modulus when columns and supports are combined has been added (see 5.4.2, Appendix A);
- d) The dimensioning method in Figures 1 to 4 has been changed (see Figures 1 to 4, Figures 1 to 4 in the 2009 version).

This document modifies and adopts ISO 5480:2020 "Ships and marine technology - Railings for cargo ships". This document is consistent with the technical specifications of ISO 5480:2020.

- a) Modify the scope description (see Chapter 1) to be consistent with GB/T 23425-2009 and to meet the format of GB/T 1.1-2020.

Require;

- b) Replace ISO 65 with the normatively referenced GB/T 3091, ISO 887 with GB/T 5286, and ISO 898-1 with GB/T 3098.1.

(See Table 1) to adapt to my country's technological conditions and increase operability;

- c) Replace ISO 1461 (see 6.2) with the normatively referenced GB/T 13912 to adapt to my

country's technical conditions and increase operability.

Compared with ISO 5480:2020, this document has undergone the following editorial changes.

---To align with existing standards, the standard name has been changed to "Shipbuilding Cargo Ship Railings".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Technical Committee on Ship Outfitting Standardization (SAC/TC129).

## 1 Scope

This document specifies the materials, design, structure, installation, manufacturing, and finishing quality of cargo ship railings.

This document applies to railings installed on the open freeboard decks and superstructure decks of cargo ships to prevent people from falling overboard or onto lower decks.

This document does not apply to railings installed near a compass.

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

This document.

GB/T 3091 Welded steel pipes for low-pressure fluid transportation GB/T 5286 General scheme for flat washers for bolts, screws and nuts (GB/T 5286-2001, ISO 887:2000, IDT) GB/T 3098.1 Mechanical properties of fasteners - Bolts, screws and studs (GB/T 3098.1-2010, ISO 898-1:2009) MOD) GB/T 13912 Technical requirements and test methods for hot-dip galvanized coatings on steel components (GB/T 13912-2010) ISO 1461:2009, MOD)

## 3 Terms and Definitions

The following terms and definitions apply to this document.

guardrail

The structure consists of columns (3.2), crossbars (3.3), handrails (3.4), and supports (3.5).

**Note:** See Figures 1-4.

pillar stnchion

The main vertical components in the railing (3.1).

rail

Horizontal members between the supports (3.2).

toprail

The tallest bar in a series of bars (3.3).

Support stay

Secondary structural support connecting the strut (3.2) and the deck.