

ICS 47.080

CCS U 18



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

GB/T 19314.8-2019

**Small craft -- Hull construction and scantlings -- Part 8:
Rudders**

Issued on: May 10, 2019

Implemented on: December 1, 2019

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

GB/T 19314 "Small boat hull structure and component size" is divided into 9 parts.

--- Part 1. Materials. thermosetting resins, glass fiber reinforced plastics, reference laminates;

--- Part 2. Materials. core materials for embedded structures, embedded materials;

--- Part 3. Materials. steel, aluminum alloy, wood, other materials;

--- Part 4. Workshop and manufacturing;

--- Part 5. Determination of design pressure, design stress and component size of single vessel;

--- Part 6. Structural arrangements and details;

--- Part 7. Determination of the dimensions of multi-hull ship components;

--- Part 8. Rudder;

--- Part 9. Sailboat possession.

This part is the eighth part of GB/T 19314.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to ISO 12215-8:2009 "Small boat hull structure and component size part 8. rudder" and its

First Amendment in 2010.

This section also made the following editorial changes.

--- Change the "effective bending moment arm $Z_b = k_b \cdot h_r h_c$ " in Table 1 to "effective bending moment arm $Z_b = k_b \cdot h_r h_b$ ".

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

---GB/T 19916-2005 Main data of small boats (ISO 8666.2002, IDT)

This part is proposed and managed by the National Small Boat Standardization Technical Committee (SAC/TC241).

This section drafted by. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Yaguang Technology Group Co., Ltd.

1 Scope

This part of GB/T 19314 specifies the component rule of the rudder mounted on the dinghy of the hull length not exceeding 24 m measured according to ISO 8666.

Inch. This section applies only to individual boats.

This section does not specify the characteristics of the rudder handling capability.

This section only considers the pressure load acting on the rudder due to the manipulation of the boat. Acting on the rudder or rudder post due to stranding or docking (if

The load on the installation) needs to be considered separately.

Note. The component dimensions obtained in this section are mainly applicable to leisure boats, including rental boats.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 19314.5-2019 hull structure and component dimensions - Part 5. Design pressures, design

Component size determination (ISO 12215-5.2008, IDT)

ISO 8666 dinghy main parameters (Smalcraft-Principaldata)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Design category designcategories

The design of the boat to be assessed in accordance with this section is divided according to applicable sea conditions and wind power. Assume that the boat is driving correctly,

speed and main sea conditions

Adapted.

3.1.1

Design category A ("Ocean") designcategoryA ("ocean")

Suitable for sailing on a sea with a high wave height of more than 4m and a wind speed exceeding the level of Beaufort but excluding anomalies such as hurricanes.

3.1.2

Design category B ("offshore") designcategoryB ("offshore")

It is suitable for sailing in a sea with a wave height of no more than 4m and a wind speed not exceeding the level of Beaufort.

3.1.3

Design Category C ("Coastal") designcategoryC ("inshore")

It is suitable for sailing in a sea with a wave height of no more than 2m and a wind speed not exceeding the level of Beaufort.

3.1.4

Design category D ("shadowed waters") designcategoryD ("shelteredwater")

It is suitable for sailing in a sea with a wave height not exceeding 0.5m and a wind speed not exceeding the level of Beaufort.