

ICS 47.080
CCS U 18



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

GB/T 19314.6-2019

**Small craft -- Hull construction and scantlings -- Part 6:
Structural arrangements and details**

Issued on: May 10, 2019

Implemented on: December 1, 2019

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

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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 size of a multi-hull vessel;

--- Part 8. Rudder;

--- Part 9. Sailboat possession.

This part is the sixth 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 12215-6:2008 "Small boat hull structure and component dimensions Part 6. Structural arrangement

And the rules.

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)

---GB/T 19919-2005 Small boat windows, side scuttles, hatch covers, storm covers and door strength and tightness requirements (ISO 12216).

2002, IDT)

--- GB/T 19314.8-2019 hull structure and component dimensions - Part 8. rudder (ISO 12215-8:2008, IDT)

Aerospace and hull structures and components - Part 9. Sailboat attachments (ISO 12215-9.

2008, IDT)

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

This section drafted by. China Shipbuilding Corporation, the 7th Eighteenth Institute.

1 Scope

This part of GB/T 19314 relates to GB/T 19314.5-2019, ISO 12215-7, ISO 12215-8 and ISO 12215-9.

Clear structural details and structural elements. This section applies to fibre reinforcements with a hull length of not more than 24 m in accordance with ISO 8666

Monolithic and multi-hull boats constructed of plastic (FRP), aluminum or steel alloys, wood or other hull materials.

This section includes two features. First, provide an explanation of the further calculation process and formula for GB/T 19314.5-2019;

Second, provide examples of structural arrangements and rules for applying the principles. The structural arrangements and details specified in this section can be used as a design basis.

Note. This part of the component size is mainly used in yachts, including rental boats, excluding rowing.

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. singular design pressure, design stress,

Determination of dimensions (ISO 12215-5:2008, IDT)

ISO 8666 dinghy main data (Smalcraft-Principaldata)

Specification for hull structure and component dimensions - Part 7. Determination of dimensions of multi-hulls (Smalcraft-Hul

constructionandscantlings-Part 7. Scantlingdeterminationofmultihuls)

Specification for hull structure and component dimensions - Part 8. rudder (Smalcraft-Hulconstructionand

scantlings-Part 8. Rudders)

ISO 12215-9 hull structure and component dimensions - Part 9. Sailcraft-Hulconstruction andscantlings-Part 9. Sailingboats-Appendagesandrigattachment)

ISO 12216 small boat windows, portholes, hatch covers, storm covers and door strength and tightness requirements (Smalcraft-Windows,

Portlights,hatches,deadlightsanddoors-Strengthandwatertightnessrequirements)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Full load displacement loadeddisplacementmass

mLDC

The total mass of the boat and its all attached bodies in full-loaded state as defined in ISO 8666.

3.2

Sailing sailingcraft

A small boat mainly driven by wind and $AS > 0.07 (mLDC)^{2/3}$, of which

AS --- According to ISO 8666, the total projected area of all sails when the sail is pulled up and used at the same time, in square meters (m²).

mLDC--- is defined as ISO 8666 is the full load displacement in kilograms (kg).