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

GB/T 19314.2-2019

**Small craft -- Hull construction and scantlings -- Part 2:
Materials: Core materials for sandwich construction, embedded
materials**

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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 dimensions of multi-hull ship components;

--- Part 8. Rudder;

--- Part 9. Sailboat possession.

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

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

This section uses the translation method equivalent to ISO 12215-2:2002 "Small boat hull structure and component dimensions Part 2. Materials. clamps

Core material and embedded material for layer structure.

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

---GB/T 1933-2009 Determination of wood density (ISO 3131:1975, MOD)

---GB/T 1938-2009 Test method for tensile strength of wood grain (ISO 3345:1975, MOD)

---GB/T 1939-2009 Wood transverse grain compression test method (ISO 3132:1975, MOD)

Plastics -- Determination of combustion behaviour by oxygen index method Part 1 . Guides
(ISO 4589-1.1996,

IDT)

--- GB/T 2406.2-2009 Determination of combustion behaviour by oxygen index method Part
2. Room temperature test (ISO 4589-2.

1996, IDT)

---GB/T 6343-2009 Determination of apparent density of foams and rubber (ISO 845.2006,
IDT)

---GB/T 8810-2005 Determination of water absorption of rigid foams (ISO 2896.2001,
MOD)

---GB/T 8813-2008 Determination of compression properties of rigid foams (ISO 844.2004,
IDT)

---GB/T 9641-1988 Test method for tensile properties of rigid foams (ISO 1926.1979, IDT)

---GB/T 14017-2009 Test method for tensile strength of wood transverse stripes (ISO
3346.1975, MOD)

---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 Corporation, the 7th Eighteenth Institute.

1 Scope

This part of GB/T 19314 applies to structural core materials and materials embedded in
sandwich structures. This section applies to ISO 8666

A dinghy with a specified hull length (LH) of no more than 24 m.

Note. The root cause of this part of GB/T 19314 is that the sandwich structure of the boat
requires careful selection of the core material from many materials and must be pressed.

The column is programmed to achieve a predetermined long-term service life under
expected load and environmental conditions.

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 10007-2008 Test method for shear strength of rigid foams (ISO 1922.2001, IDT)

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 844.2001 Determination of compressive properties of rigid foams
(Rigidcellularplastics-Determinationofcom-

Cureproperties)

ISO 845.1988 Determination of apparent density of foams and rubbers
(Celularplasticsandrubbers-Determination

Ofapparent(bulk)density)

ISO 1926.20051) Determination of tensile properties of foamed rigid materials
(Celularplastics-Determinationof

Tensilepropertiesofrigidmaterials)

1) This document (a revised version of ISO 1926.1979) was not published at the time of ISO 12215-2.2002, and was published in.2005.

2) This document was not published at the time of ISO 12215-2.2002, and was published in.2002.

ISO 2896.2001 Determination of water absorption of rigid foams
(Rigidcellularplastics-Determination ofwater

Absorption)

ISO 3131.1975 Determination of density during physical and mechanical testing of wood
(Wood-Determination of dens

Physicalandmechanicaltests)

ISO 3132.1975 Wood-Testingincompressionperpendiculartograin

ISO 3345.1975 Determination of tensile stress of wood grain
(Wood-Determinationofultimatetensile

Stressparaleltograin)

ISO 3346.1975 Determination of tensile stress of wood transverse stripes
(Wood-Determinationofultimatetensile

Stressperpendiculartograin)

ISO 4589 (all parts)..1996 Plastics Determination of Combustion Behavior by Oxygen Index

Method (Plastics-Determinationof

Burningbehaviourbyoxygenindex)

ISO 8666.20022) Small boat main data (Smalcraft-Principaldata)

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