

# Κατασκευή και κατάταξη επαγγελματικών και ιδιωτικών σκαφών αναψυχής με τους νέους κανονισμούς του Ελλην. Νηογνώμονα

## Ελληνικός Νηογνώμων

Δρ. Νίκος Θεμελής

Διεύθυνση Κανονισμών

Εξελίξεις στην Νομοθεσία των Σκαφών Αναψυχής (ιδιωτικά και  
επαγγελματικά)

Ναυτικός Όμιλος Ελλάδος, 27/03/2017

# HRS Rules and Regulations for the Classification and Construction of Small Craft

- 1<sup>st</sup> edition: 2004
- 2<sup>nd</sup> edition: 2010
- 3<sup>rd</sup> edition will be published in 2017

## Contents

- Part 1: Classification and surveys
- Part 2: Materials
- Part 3: Hull Construction and Equipment
- Part 4: Specialized Vessels
- Part 5: Machinery
- Part 6: Electrical installations
- Part 7: Fire safety
- Part 8: Control Engineering Systems



**HELLENIC REGISTER OF SHIPPING**

## Rules and Regulations for the Classification and Construction of Small Craft

**Edition 2017**

HELLENIC REGISTER OF SHIPPING S.A. – All rights reserved  
23, Akti Miaouli,  
185 35 PIRAEUS  
Tel: +30 210-4196900  
Fax: +30 210-422191  
e-mail: [hrg@hrs.gr](mailto:hrg@hrs.gr)



# Application



## Type of crafts:

- Displacement crafts ( $Fr < 0.5$ )
- Planning crafts ( $Fr > 0.5$ )
- Light displacement crafts
- Multi or monohulls

## Materials for hull construction:

- Steel
- Aluminum alloys
- Fiber Reinforced Plastics (FRP)
- Wood

## Categories:

- Yachts (motor/sailing)
- Other crafts, for example:
  - Passengers
  - Offshore supply vessels
  - Tugs
  - Barges and pontoons
  - Fire fighting vessels
  - Oil recovery vessels
  - Patrols

## Lengths considered:

- Displacement crafts up to 60m
- Planning crafts up to 36 m
- Crafts constructed by wood, up to 36 m

HRS

# Key amendment of the new version



New class notation:

## Commercial Yacht

1. Motor or sailing yachts which are 24 m in load line and over
2. If built before 21 July 1968, which are of 150 tons gross tonnage and over
3. In commercial use for sports or pleasure
4. Do not carry cargo
5. Do not carry more than 12 passengers

The yachts assigned this class notation should comply with specific and additional requirements provided in HRS rules

Other class notations are not affected

These requirements are compatible with the standards set by the **Large Commercial Yacht Code (LY3)** published by UK MCA

Used by the Red Ensign Group



---

LY3  
The Large Commercial Yacht Code

---

HRS

# The LY3 Code: General aspects

- New yachts are to be built to the requirements of a Classification Society and issued with a Certificate of Classification
- Existing yachts need also to be taken into a Class
- In some items , the requirements depend on whether the vessels are above or below 500 GT.
- Short Range Yacht
  - below 300 / 500 GT, depending on the date of construction
  - weather conditions restrictions (4 BF / 6 BF for motor / sailing yachts)
  - operation up to a maximum distance from a safe haven ( 60 nm)
- Refer to classification and statutory items

## The LY3 Code: Main items

LY3 item	Objective and references	Indicative subjects	HRS Rules
<b>Construction and Strength</b>	<ul style="list-style-type: none"> <li>• Ensure that all vessels are constructed to a consistent standard</li> <li>• Refer to Rules of a Classification Society</li> </ul>	<ul style="list-style-type: none"> <li>• Structural Strength</li> <li>• Watertight Bulkheads</li> <li>• Enclosed Compartments within the Hull and below the Freeboard Deck</li> <li>• Rigging of sailing vessels</li> </ul>	Part 3
<b>Weathertight Integrity</b>	<ul style="list-style-type: none"> <li>• Standards to achieve weathertight integrity</li> <li>• Refer to the International Convention on Load Lines (ICLL 1966)</li> </ul>	<ul style="list-style-type: none"> <li>• Hatchways and Skylight Hatches</li> <li>• Doorways and Companionways</li> <li>• Windows</li> <li>• Ventilators and Exhausts</li> <li>• Air Pipes</li> <li>• Scuppers, Sea Inlets and Discharges</li> <li>• Materials for Valves and Associated Piping</li> </ul>	Part 3 Part 5
<b>Water freeing arrangements</b>	Consideration of the risks of green water being shipped aboard	Requirements at least equivalent to the standard of ICLL.	Part 3

LY3 item	Objective and references	Indicative subjects	HRS Rules
<b>Machinery*</b>	<ul style="list-style-type: none"> <li>• Set minimum requirements</li> <li>• Rules of a Classification Society</li> <li>• SOLAS Chapters II-1/Part C &amp; E</li> </ul>	<ul style="list-style-type: none"> <li>• Machinery installation</li> <li>• Unattended machinery spaces</li> </ul>	Part 5
<b>Electrical Installations*</b>	<ul style="list-style-type: none"> <li>• Set minimum requirements</li> <li>• Rules of a Classification Society</li> <li>• SOLAS Chapter II-1/Part D &amp; E</li> </ul>	<ul style="list-style-type: none"> <li>• Installation</li> <li>• Lighting</li> <li>• Batteries</li> <li>• Emergency Power</li> </ul>	Part 6
<b>Steering Gear*</b>	<ul style="list-style-type: none"> <li>• Set minimum requirements</li> <li>• Rules of a Classification Society</li> <li>• SOLAS Chapter II-1/Part C</li> </ul>		Part 5

\* Requirements depend on whether the vessel is above or below 500 GT

LY3 item	Objective and references	Indicative subjects	HRS Rules
<b>Bilge Pumping*</b>	Ability to control any leakage to adjacent compartments, when a compartment is flooded <ul style="list-style-type: none"> <li>• Rules of a Classification Society</li> </ul>	Minimum requirements for pump arrangements are set: <ul style="list-style-type: none"> <li>• Number</li> <li>• Location</li> <li>• Independently powered</li> <li>• Effective to a heel of 10<sup>0</sup></li> </ul>	Part 5
<b>Stability</b>	Set standards for intact and damage stability	Intact Stability <ul style="list-style-type: none"> <li>• Motor vessels: monohulls/ multi-hulls</li> <li>• Sailing vessels: monohulls/ multi-hulls</li> <li>• Safety issues in high speeds</li> </ul> Damage stability Inclining experiment Documentation	Part 3
<b>Freeboard</b>	All vessels are assigned a freeboard in accordance with ICLL 1966.	Freeboard Mark and Loading Datum Draught Marks	Part 3



LY3 item	Objective and references	Indicative subjects	HRS Rules
<b>Structural fire protection*</b>	For vessels > 500 GT: The aim is to achieve a level of fire protection compatible with the requirements of SOLAS for passenger ships carrying up to 36 passengers.	<ul style="list-style-type: none"> <li>• Fire divisions (Main vertical zones and horizontal zones)</li> <li>• Fire integrity of bulkheads and decks</li> <li>• Means of escape</li> <li>• Materials</li> <li>• Ventilation systems</li> <li>• Protection of stairways and lifts in accommodation and service spaces</li> </ul>	Part 7
<b>Fire appliances</b>	For vessels above 500 GT, SOLAS II-2	Specific provisions for: <ul style="list-style-type: none"> <li>• Water jets</li> <li>• Fire pumps</li> <li>• Fire-main / Fire hoses</li> <li>• Fixed and portable fire extinguishers</li> <li>• Fire extinguishing in machinery spaces</li> </ul>	Part 7
<b>Anchors and Cables</b>	Refer to Rules of a Classification Society		Part 3

For others requirements of the LY3 Code, HRS has developed a Guidance Note to assist on their compliance:

Navigation lights, shapes and sound signals

Navigational equipment and visibility from wheelhouse [Bridge Navigational Watch Alarm System (BNWAS), Long-Range Identification and Tracking (LRIT) system]

Miscellaneous equipment

Radio installations

Protection of personnel

Life-saving appliances

Accommodation and Recreational Facilities

Shore-Ship transfer of personnel

Safety Management (for vessels under 500 GT)



**HELLENIC REGISTER OF SHIPPING**

**Guidance Note  
for  
Commercial Yachts**

**Edition 2017**

HELLENIC REGISTER OF SHIPPING S.A. – All rights reserved

23, Akti Miaouli,  
185 35 PIRAEUS

Tel: +30 210-4196900

Fax: +30 210-422191

e-mail: [hrrs@hrrs.gr](mailto:hrrs@hrrs.gr)



**HRS**

## List of Certificates to be Issued (1)

Certification	Subject & Convention	Limits	Detail & Remarks
International Tonnage Certificate	Tonnage ITC 69	≥ 24 m	
International Load Line Certificate	Load Line ILLC'66	≥ 24 m	Intact Stability & Subdivision Standard
Cargo Ship Safety Construction Certificate	Construction SOLAS 74	≥500GT	Construction
	Fire Protection SOLAS 74	≥500GT	Structural Fire Protection & Means of Escape
Cargo Ship Safety Equipment Certificate	Fire Appliances SOLAS 74	≥ 500GT	Fire Appliances
	Life Saving Appliances SOLAS 74	≥ 500GT	Life - Saving Appliances
	Navigation Equipment SOLAS 74	≥ 500GT	Navigation lights, sounds, signals <sup>1</sup> etc
Cargo Ship Safety Radio Certificate	Radio SOLAS 74	≥ 300GT	Communications
Safe Manning Document	Manning STCW 95	≥ 500GT	Manning
International Oil Pollution Prevention Certificate	Pollution MARPOL Annex I	≥400GT	Oil Pollution Prevention Equipment

## List of Certificates to be Issued (2)

Certification	Subject & Convention	Limits	Remarks
International Sewage Pollution Prevention Certificate	Pollution MARPOL Annex IV	≥400GT or >15 persons	Sewage Pollution Prevention
International Air Pollution Prevention Certificate	Pollution MARPOL Annex VI	≥400GT or >130kw	Air Pollution Prevention
Anti-Fouling System Certificate of Compliance		≥400GT	Hull Anti-Fouling Declaration required for <400 GT
Safety Management Certificate	International Safety Management Code	≥500GT	Operations
International Ship Security Certificate	International Ship and Port Facility Security Code	≥500GT	Security
Maritime Labour Certificate	Maritime Labour Convention 2006	≥500GT	Seafarer Living & Working Conditions. (Recommended for <500GT)
Certificate of Compliance	Various	≥24 m	Covers aspects surveyed under the code for which other certificates are not required.

## The way forward

### Our commitment:

- Continuous improvement of HRS Rules
- Satisfying industry needs

### Cooperation with all stakeholders:

- Owners
- Academia
- Shipyards
- Designers

### Your input is important!

Thank you!



#### **NIKOLAOS THEMELIS**

Regulatory Division Director

T. | (+30) 210 4196973  
F. | (+30) 210 4221913  
E. | <mailto:n.themelis@hrsorg.gr>  
Web | [www.hrs.gr](http://www.hrs.gr)

#### **HELLENIC REGISTER OF SHIPPING SA**

23, Akti Miaouli str. - 18535 Piraeus - Greece



*reaching a century of experience  
in shipping certification services*

we provide valid, on time, high quality certification  
services in shipping, industry & entrepreneurship