

**RULES  
FOR THE CLASSIFICATION OF  
SHIPS**

*Part 1 – GENERAL REQUIREMENTS*  
**January 2022**

**CROATIAN REGISTER OF SHIPPING**

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By the decision of the General Committee of Croatian Register of Shipping,

**RULES FOR THE CLASSIFICATION OF SHIPS**

**Part 1 – GENERAL REQUIREMENTS**

have been adopted on 20th December 2021 and shall enter into force on 1st January 2022

## **REVIEW OF AMENDMENTS IN RELATION TO PREVIOUS EDITION OF THE RULES**

### **RULES FOR THE CLASSIFICATION OF SHIPS**

*Part 1 - GENERAL REQUIREMENTS*

*Chapter 3 – Type approval of products*

All major changes in respect to Rules for the classification of ships, Part 1 – General requirements, Chapter 3 – Type approval of products, edition July 2021, throughout the text are shaded (if any).

Items not being indicated as corrected have not been changed.

The grammar and print errors have been corrected throughout the Rules and are not subject to above indication of changes.

The subject Chapter of this part of the Rules includes the requirements of the following international Organisations:

**NO REQUIREMENTS**

## Chapter 3      **TYPE APPROVAL OF PRODUCTS**

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## 1 GENERAL INFORMATION

**1.1** This Chapter of the *Rules for the classification of ships* (hereafter referred to as: the Rules) of **CROATIAN REGISTER OF SHIPPING** (hereafter referred to as: the *Register*) is prescribing requirements for type approval of products.

Certain machinery, installations, devices, equipment, arrangements and its certain parts, as well as materials (hereafter called: the products) which are subjected to the supervision of the *Register*, are to be in accordance with the requirements of the Rules and type approved by the *Register*.

Type approval means an approval process for verifying compliance with the Rules of a product, a group of products or a system, and considered by the *Register* as a representative of continuous production.

**1.2** Type approval of products comprises:

- .1 Approval of technical documentation according to the requirements of the Rules and other standards.
- .2 Satisfactory completion of the required type tests according to approved testing program.

**1.3** Type approval is valid for all the units identical to the prototype subsequently manufactured under the same technology and standards.

**1.4** If the product is type approved by an organisation recognised by the *Register*, the *Register* may accept the type test results obtained under supervision of such organisation, on condition that technical documentation and type tests results submitted are in accordance with the requirements of the Rules.

**1.5** Type approval certificate, when issued, does not exclude requirements for periodical supervision with manufacturers during manufacturing of type approved product.

## 2 TYPE APPROVAL

### 2.1 APPROVAL OF THE DOCUMENTATION

**2.1.1** For every product intended to be type approved, written application for type approval and following documentation is to be submitted to the *Register*:

- .1 Product identification, with product title, type mark, catalogue number or construction number and manufacturer's title.
- .2 Technical description of the product.
- .3 Relevant calculations, drawings and operation scheme.
- .4 List of materials used, including chemical and mechanical properties.
- .5 Field of application.
- .6 Boundary work conditions.
- .7 Technology and standards applied.
- .8 Other particulars as deemed necessary by the manufacturer.

### 2.2 TYPE TESTING

**2.2.1** Type testing comprises one or more tests carried out to give evidence of product conformity with the requirements of the Rules and other standards, and technical description of products.

**2.2.2** Product that undergoes testing is to be manufactured according to the approved documentation, materials and technology in compliance with relevant standards. The sample for testing is to be chosen from regular production.

**2.2.3** Type testing program according to the relevant requirements of the Rules is to be submitted to the *Register*.

The type testing program is to include:

- .1 Characteristics (capacity, power, etc.) and allowable tolerances.
- .2 List of tests and duration for each test.
- .3 Testing terms.
- .4 Particulars for each test, including measurements to be carried out and recorded.
- .5 Time and place of testing.

**2.2.4** As far as possible tests are to be carried out on the same sample in the presence of the Surveyor or representative of the organisation authorised by the *Register*.

**2.2.5** Testing report is to be signed by the Surveyor, or by the representative of the organisation recognised by the *Register* present during testing. The manufacturer is to submit to the *Register* type testing report, which is to comprise as a minimum:

- .1 Date of report.
- .2 Date when testing has been carried out.
- .3 Description and identification of the product that undergoes testing.
- .3 Purpose of the product.
- .4 Requirements that product has to comply with.

- .5 Testing devices general outline with short description of equipment applied in testing, and description of each testing procedure, together with date and results of the last calibration on measuring equipment and accuracy of the results obtained
- .6 When considered useful for easier interpretation of testing results diagrams and tables are to be used.
- .7 Table display of all significant data before and after the testing has been carried out, including detail description of product after the testing.
- .8 Statement that the product is in compliance with the requirements of the Rules or detailed description of those requirements that are not accomplished.

### 2.3 TYPE APPROVAL CERTIFICATE

**2.3.1** Upon approval of the documentation and satisfactory completion of the required type tests the *Register* may issue to the manufacturers a Type approval certificate.

**2.3.2** Type approval certificate is a document which:

- .1 Identifies the manufacturer and main characteristics of the product (type and description).
- .2 Certifies compliance with the requirements of the *Register*, Rules, national and international regulations or standards as stated in the Type approval certificate.
- .3 Defines range of the application and particular boundary work conditions.
- .4 Defines conditions that have to be complied with for maintaining the type approval validity during the period of validity of the Type approval certificate issued.
- .5 Identifies approved documentation on the basis of which the product has been manufactured and type approved.

### 2.4 VALIDITY OF THE TYPE APPROVAL CERTIFICATE

**2.4.1** The validity of the Type approval certificate is usually four years, except when the product features stipulate different period of validity as stated in the Type approval certificate.

**2.4.2** Generally, three months before the expiry date of the Type approval certificate, the *Register* shall send a written reminder to the manufacturer.

**2.4.3** At least one month before the expiry date of the validity of the Type approval certificate, the manufacturer should apply to the *Register* in writing, for extension of the validity of the Type approval certificate for another four year period (or otherwise, regarding product features).

**2.4.4** The Type approval certificate validity will be renewed with a condition that all the relevant factors significant for type approval remain unchanged and that the repeated

type tests (if so required by the *Register*) are carried out to the satisfaction of the *Register*.

**2.4.5** If the manufacturer does not respond to the *Register* with an application for the extension of the validity of the Type approval certificate, the product will be deleted from the *List of type approved products, approved manufacturers and service suppliers* after the date of validity of Type approval certificate is expired.

## **2.5 MAINTENANCE OF VALIDITY OF TYPE APPROVAL**

**2.5.1** Type approval of the product is valid on a condition that during the period of validity of the Type approval certificate, any possible modification (of construction, materials, technology or standards applied during manufacturing of the approved product) is to be approved by the *Register*.

**2.5.2** When experience gained in usage reveal any product's features that do not comply with the requirements of the Rules, or in the case of non-compliance with additional requirements imposed by the *Register*, the *Register* reserves the right to cancel the validity of the Type approval certificate before the date of expiry.

**2.5.3** When the new *Register's* Rules, national and international regulations and standards or other amendments (not being at force when the Type approval certificate has been issued) come into force, the *Register* reserves the right to cancel the validity of previously issued Type approval certificate before the date of expiry.

## **2.6 SUPERVISION WITH MANUFACTURERS DURING MANUFACTURING OF TYPE APPROVED PRODUCTS**

**2.6.1** Supervision with manufacturers during manufacturing and testing of type approved products is to be carried out by the *Register* or organisation authorised by the *Register* on each particular product.

**2.6.2** Upon satisfactory completion of supervision during manufacturing and testing, each particular product is to be marked with the *Register's* sign or sign of the authorised organisation.

**2.6.3** In particular cases supervision procedure as well as marking of the products and certificate issuance may be carried out in accordance with special arrangements between manufacturer and the *Register*.

## **2.7 LIST OF TYPE APPROVED PRODUCTS, APPROVED MANUFACTURERS AND SERVICE SUPPLIERS**

**2.7.1** List of type approved products, approved manufacturers and service suppliers is available on the official web site of the *Register*.