



Rules for the Classification of Yachts

Effective from January 2026

Part E Service Notations

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GENERAL TERMS AND CONDITIONS
OF EMIRATES CLASSIFICATION SOCIETY – L.L.C – O.P.C (TASNEEF)
EFFECTIVE AS OF 1 APRIL 2025

DEFINITIONS

Administration	means the government of the state whose flag the Ship is entitled to fly or under whose authority the Ship is authorised to operate in the specific case.
Client	means the interested party and any other party who requires the Services.
Certificate of Classification	means a certificate of classification, issued by a Society and the certificate confirms that the vessel's structure, machinery, and equipment meet the society's specific technical rules and regulations.
Interested Party	means the party, other than the society, having an interest in or responsibility for the Ship, product, plant or system subject to classification or certification (such as the owner of the Ship and his representatives, the Ship builder, the engine builder or the supplier of parts to be tested) who requests the Services or on whose behalf the Services are requested.
Owner	means the registered owner, the Ship owner, the manager or any other party with the responsibility, legally or contractually, to keep the Ship seaworthy or in service, having particular regard to the provisions relating to the maintenance of class laid down in part a, chapter 2 of the rules for the classification of Ships or in the corresponding rules indicated in the specific rules.
Register of Ships	means a register book, also known as a Register of Ships, is a comprehensive record of vessels that are classified by a society.
Rules	means the documents below issued by the Society: a. Rules for the classification of Ships or other special units. b. Complementary rules containing the requirements for certification of products, plants, systems and other or containing the requirements for the assignment of additional class notations. c. Rules for the application of statutory rules, containing the rules to perform the duties delegated by administrations. d. Guides to carry out particular activities connected with Services. e. Any other technical document, as for example rule variations or interpretations.

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Services	means the activities described in Article 1 below, rendered by the Society upon request made by or on behalf of the Interested Party.
Ship	means ships, boats, craft and other special units, as for example offshore structures, floating units and underwater craft.
Society	means Emirates Classification Society LLC OPC and/or its affiliated entities providing the Services.
Surveyor	means technical staff acting on behalf of the society in performing the Services.
UAE	means United Arab Emirates.

ARTICLE 1

- 1.1 The purpose of the Society is, among others, the classification and certification of Ships and the certification of their parts and components.
- 1.2 The Society (a) sets forth and develops Rules; (b) publishes the Register of Ships¹; and (c) issues certificates, statements and reports based on its survey activities.
- 1.3 The Society also takes part in the implementation of national and international rules and standards as delegated by various Governments.
- 1.4 The Society carries out technical assistance activities on request and provides special services outside the scope of classification, which is regulated by these general conditions unless expressly excluded in the particular contract.

ARTICLE 2

- 2.1 The Rules developed by the Society reflect the level of its technical knowledge at the time they are published. Therefore, the Society, though committed, also through its research and development services, to continuous updating, does not guarantee they meet state-of-the-art science and technology at the time of publication or that they meet the Society's or others' subsequent technical developments.
- 2.2 The Interested Party is required to know the Rules on the basis of which the Services are provided. With particular reference to Classification Services, special attention is to be given to the Rules concerning class suspension, withdrawal and reinstatement. In case of doubt or inaccuracy, the Interested Party is to promptly contact the Society for clarification. The Rules for Classification of Ships are published on the Society's website: www.tasneefmaritime.ae
- 2.3 The Society exercises due care and skill:
 - (a) in the selection of its Surveyors; and
 - (b) in the performance of its Services, taking into account the level of its technical knowledge at the time the

Services are performed.

- 2.4 Surveys conducted by the Society include, but are not limited to, visual inspection and non-destructive testing. Unless otherwise required, surveys are conducted through sampling techniques and do not consist of comprehensive verification or monitoring of each component of the Ship or of the items subject to certification. The surveys and checks made by the Society, either on board Ships or with remote techniques, do not necessarily require the constant and continuous presence of the Surveyor. The Society may also commission laboratory testing, underwater inspection and other checks to qualified service suppliers, who will carry out these duties under their responsibility. Survey practices and procedures are selected by the Society based on its experience and knowledge and according to generally accepted technical standards in the sector.

ARTICLE 3

- 3.1 The class assigned to a Ship, like the reports, statements, certificates or any other document or information issued by the Society, reflect the discretionary opinion of the Society concerning compliance, at the time the Service is provided, of the Ship or product subject to certification, with the applicable Rules (given the intended use and within the relevant time frame).
- 3.2 The Society is under no obligation to make statements or provide information about elements or facts which are not part of the specific scope of the Service requested by the Interested Party or on its behalf.
- 3.3 No report, statement, notation on a plan, review, Certificate of Classification, document or information issued or given as part of the Services provided by the Society shall have any legal effect or implication other than a representation that, on the basis of the checks made by the Society, the Ship, structure, materials, equipment, machinery or any other item covered by such document or information meet the Rules. Any such document is issued solely for the use of the Society, its committees and clients or other duly authorised bodies and for no other purpose. Therefore, the Society cannot be held liable for any act made or document issued by other parties on the basis of the statements or information given by the Society. The validity, application, meaning and interpretation of a Certificate of Classification, or any other document or information issued by the Society in connection with its Services, are governed by the Rules of the Society, whom is the sole subject entitled to make such authentic interpretation. Any disagreement on technical matters between the Interested Party and the Surveyor in the carrying out of his functions shall be raised in writing as soon as possible with the Society, which will settle any divergence of opinion or dispute.
- 3.4 The classification of a Ship, or the issuance of a certificate or other document connected with classification or certification and in general with the performance of Services by the Society shall have the validity conferred upon it by the Rules of the Society at the time of the assignment of class or issuance of the certificate; in no case shall it amount to a statement or warranty of seaworthiness, structural integrity, quality or fitness for a particular purpose or service of any Ship, structure, material, equipment or machinery inspected or tested by the Society.
- 3.5 Any document issued by the Society in relation to its activities reflects the condition of the Ship or the subject of certification or other activity at the time of the check.
- 3.6 The Rules, surveys and activities performed by the Society, reports, certificates and other documents issued by

the Society are in no way intended to replace the duties and responsibilities of other parties including, without limitation, Governments, designers, ship builders, manufacturers, repairers, suppliers, contractors or sub-contractors, Owners, operators, charterers, underwriters, sellers or intended buyers of a Ship or other product or system surveyed.

- 3.7 These documents and activities do not relieve such parties from any fulfilment, warranty, responsibility, duty or obligation (also of a contractual nature) expressed or implied or in any case incumbent on them, nor do they confer on such parties any right, claim or cause of action against the Society. With particular regard to the duties of the Owner, the Services undertaken by the Society do not relieve the Owner of his duty to ensure proper maintenance of the Ship and ensure seaworthiness at all times. Likewise, the Rules, surveys performed, reports, certificates and other documents issued by the Society are intended neither to guarantee the buyers of the Ship, its components or any other surveyed or certified item, nor to relieve the seller of the duties arising out of the law or the contract, regarding the quality, commercial value or characteristics of the item which is the subject of transaction.
- 3.8 In no case, therefore, shall the Society assume the obligations incumbent upon the above-mentioned parties, even when it is consulted in connection with matters not covered by its Rules or other documents.
- 3.9 In consideration of the above, and within the limits of liability under Article 5 below, the Interested Party undertakes to relieve and hold harmless the Society from any third party claim, as well as from any liability in relation to the latter concerning the Services rendered, where these are attributable to the Interested Party.
- 3.10 Insofar as they are not expressly provided for in these General Conditions, the duties and responsibilities of the Owner and Interested Parties with respect to the Services rendered by the Society are described in the Rules applicable to the specific Service rendered.

ARTICLE 4

- 4.1 Any request for the Society's Services shall be submitted in writing and signed by or on behalf of the Interested Party. Such a request will be considered irrevocable as soon as received by the Society and shall entail acceptance by the applicant of all relevant requirements of the Rules, including these General Conditions. Upon acceptance of the written request by the Society, a contract between the Society and the Interested Party is entered into, which is regulated by the present General Conditions.
- 4.2 In consideration of the Services rendered by the Society, the Interested Party and the person requesting the service shall be jointly liable for the payment of the relevant fees and costs, even if the service is not concluded for any cause not pertaining to the Society. In the latter case, the Society shall not be held liable for non-fulfilment or partial fulfilment of the Services requested. In the event of non-payment of the invoice within the contractually agreed terms, the Society reserves the right to request, in addition to the full payment of the principal amount due and without the need for further formal notice, also:
- (a) Late payment interest at a rate of 5% per annum, calculated from the due date of the invoice until full payment is received, in accordance with the applicable laws in the United Arab Emirates or the country from where the invoice is issued. Any applicable VAT, taxes, or statutory levies shall be borne by the Client as per the laws

of the respective jurisdiction;

- (b) full reimbursement of any costs incurred for debt recovery, including, but not limited to, legal fees, administrative expenses, and the costs of any extrajudicial actions; and
- (c) any additional amount due as compensation for damages suffered as a result of the delay or non-compliance, where documented.

- 4.3 The contract for the classification of a Ship or for other Services may be terminated and any certificates revoked at the request of one of the parties, subject to at least 30 days' notice to be given in writing. Failure to pay, even in part, the fees due for Services carried out by the Society will entitle the Society to immediately terminate the contract and suspend the Services.
- 4.4 The Society may withhold, suspend or withdraw any certificate, report or service in the event of non-payment of fees due to any member of the Society by the Client in relation to the entire business relationship between any member of the Society and the Client or by any other companies belonging to the same group as the Client. This also applies when the obligation to pay rests with a builder or with the Ship's previous Owner.
- 4.5 For every case of termination or suspension of the contract, the fees for the activities performed until the time of the termination or of the suspension shall be owed to the Society as well as the expenses incurred in view of activities already programmed; this is without prejudice to the right to compensation due to the Society as a consequence of the termination or of the suspension.
- 4.6 With particular reference to Ship classification and certification, unless decided otherwise by the Society, termination of the contract implies that the assignment of class to a Ship is withheld or, if already assigned, that it is suspended or withdrawn; any statutory certificates issued by the Society will be withdrawn in those cases where provided for by agreements between the Society and the flag State.

ARTICLE 5

- 5.1 In providing the Services, as well as other correlated information or advice, the Society, its Surveyors, servants or agents operate with due diligence for the proper execution of the activity. However, considering the nature of the activities performed (see Article 2), it is not possible to guarantee absolute accuracy, correctness and completeness of any information or advice supplied. Express and implied warranties are specifically disclaimed.
- 5.2 Therefore, subject to what provided for in Article 5.3 below, and also in the case of activities carried out by delegation of Governments, neither the Society nor any of its Surveyors will be liable for any loss, damage or expense of whatever nature sustained by any person, in tort or in contract, derived from carrying out the Services.
- 5.3 Notwithstanding the provisions in Article 5.1 above, should any user of the Society's Services prove that he has suffered a loss or damage due to any negligent act or omission of the Society, its Surveyors, servants or agents, then the Society will pay compensation to such person for his proved loss, up to, but not exceeding, five times the amount of the fees charged for the specific Services, information or opinions from which the loss or damage derives or, if no fee has been charged, a maximum of AED5,000 (Arab Emirates Dirhams Five Thousand only).
- 5.4 Where the fees charged are related to a number of Services, the amount of the fees will be apportioned for the purpose of the calculation of the maximum compensation, by reference to the estimated time involved in the

performance of the Service from which the damage or loss derives. Any liability for indirect or consequential loss, damage or expense is specifically excluded. In any case, irrespective of the amount of the fees charged, the maximum damages payable by the Society will not be more than AED 300,000 (Three Hundred Thousand Dirhams). Payment of compensation under this Article will not entail any admission of responsibility and/or liability by the Society and will be made without prejudice to the disclaimer clause contained in Article 5.

- 5.5 Any claim for loss or damage of whatever nature by virtue of the provisions set forth herein shall be made to the Society in writing, within the shorter of the following periods: THREE MONTHS from the date on which the Services were performed or THREE MONTHS from the date on which the damage was discovered. Failure to comply with the above deadline will constitute an absolute bar to the pursuit of such a claim against the Society.

ARTICLE 6

- 6.1 Any dispute, controversy, or claim arising out of or relating to these Rules, the Services of the Society, or the interpretation, breach, or termination thereof, shall first be referred to the parties' senior management for amicable resolution within thirty (30) days of written notice by either party.
- 6.2 If the dispute is not resolved amicably under Article 6.1, it shall be exclusively governed by and construed in accordance with the laws of the Emirate of Abu Dhabi and the applicable federal laws of the United Arab Emirates. The courts of Abu Dhabi shall have exclusive jurisdiction to settle any such dispute.

ARTICLE 7

- 7.1 All plans, specifications, documents and information provided by, issued by, or made known to the Society, in connection with the performance of its Services, will be treated as confidential and will not be made available to any other party other than the Owner without authorisation of the Interested Party, except as provided for or required by any applicable legislation from a competent authority. Information about the status and validity of class and statutory certificates, including transfers, changes, suspensions, withdrawals of class, conditions of class, operating conditions or restrictions issued against classed ships and other related information, as may be required, may be published on the website or released by other means, without the prior consent of the Interested Party.
- 7.2 Information about the status and validity of other certificates and statements may also be published on the website or released by other means, without the prior consent of the Interested Party.
- 7.3 Notwithstanding the general duty of confidentiality owed by the Society to its clients in Article 7.1 above, the Society's clients hereby accept that the Society will participate in the IACS Early Warning System which requires each Classification Society to provide other involved Classification Societies with relevant technical information on serious hull structural and engineering systems failures, as defined in the IACS Early Warning System (but not including any drawings relating to the Ship which may be the specific property of another party), to enable such useful information to be shared and used to facilitate the proper working of the IACS Early Warning System. The Society will provide its clients with written details of such information sent to the involved Classification Societies.
- 7.4 In the event of transfer of class, addition of a second class or withdrawal from a double/dual class, the Interested Party undertakes to provide or to permit the Society to provide the other Classification Society with all building plans and drawings, certificates, documents and information relevant to the classed unit, including its history file,

as the other Classification Society may require for the purpose of classification in compliance with the applicable legislation and relative IACS Procedure. It is the Owner's duty to ensure that, whenever required, the consent of the builder is obtained with regard to the provision of plans and drawings to the new Society, either by way of appropriate stipulation in the building contract or by other agreement.

- 7.5 In the event that the ownership of the Ship, product or system subject to certification is transferred to a new subject, the latter shall have the right to access all pertinent drawings, specifications, documents or information issued by the Society or which have come to the knowledge of the Society while carrying out its Services, even if related to a period prior to transfer of ownership.

ARTICLE 8

- 8.1 The Society shall not be obliged to perform any obligation towards the Client (including, without limitation, obligation to (a) perform, deliver, accept, sell, purchase, pay or receive money to, from or through a person or entity, or (b) engage in any other act) if this would be in violation of, inconsistent with or expose the Society to punitive measures under any United Nations resolutions and/or under any laws, regulations, decrees, ordinances, orders, demands, requests, rules or requirements of EU, United Kingdom, and/or United States of America and which relate to foreign trade controls, export controls, embargoes or international boycotts (applying, without limitation, to the financing, payment, insurance, transportation, delivery or storage of product and/or services) hereinafter referred to as "Trade Sanctions".
- 8.2 Recurring the above circumstances during the performance of the contract, the Society shall be entitled at its sole and absolute discretion:
- (a) to immediately suspend payment or performance of the Services which are the object of the contract until such;
 - (b) time as the Trading Sanctions are in force;
 - (c) to a full disengagement from the obligation affected by the Trading Sanctions, in the event that the inability to fulfill the said obligation persists until the term provided for the fulfilment hereunder, provided that where the relevant obligation relates to payments for activities and/or Services which have already been delivered, the affected payment obligation shall remain only suspended until such time as the Trading Sanctions no longer apply to the payment ; and/or
 - (d) to terminate the contract, without prejudice of the Society's rights pursuant to Article 4.

ARTICLE 9

Should any part of these General Conditions be declared invalid, this will not affect the validity of the remaining provisions.

ARTICLE 10

When the Society provides its Services to a consumer - i.e. a natural person who does not act within the scope of his business or professional activity - the following provisions do not apply Article 3 (as far as the Society is solely entitled to the authentic interpretation of the Rules); Article 4, (as far as the payment of the fees is also due for Services not

concluded due to causes not attributable to the Interested Party); Article 5 (as far as the exclusion of liability is concerned), and Article 6 (as far as the jurisdiction of a Board of Arbitrators based in Abu Dhabi is concerned).

ARTICLE 11

- 11.1 The Society and the Interested Party shall promote safety, protect human health and environment and create safe working conditions for their personnel.
- 11.2 The Interested Party shall guarantee that the working environment in which the Society's Surveyor will be required to work is adequate, safe and in all respect compliant with the applicable legislation and Rules and shall adopt all necessary measures to mitigate and/or control any relevant risk.
- 11.3 Furthermore, in accordance with the applicable legislation and Rules, the Interested Party shall provide the Society with complete and detailed information relevant to any actual or potential specific risk existing in the work areas where the Surveyor will be required to operate and relevant to the performance of the Services as well as with any specific safety measure that the Society's Surveyor is requested to comply with.
- 11.4 The Society reserves not to commence and/or to suspend the Services and/or to terminate the contract, claiming compensation for any damage occurred, if it considers that the safety requirements listed in this Article are not satisfactorily met.

EXPLANATORY NOTE TO PART E

1. Reference edition

The reference edition for Part E is the Rules for Yachts 2024 edition, which is effective from 1 July 2024.

2. Amendments after the reference edition

- 2.1 Rules for Yachts 2024 has been completely rewritten and reorganised.
- 2.2 Except in particular cases, the Rules are updated and published annually.

3. Effective date of the requirements

- 3.1 All requirements in which new or amended provisions with respect to those contained in the reference edition have been introduced are followed by a date shown in brackets.

The date shown in brackets is the effective date of entry into force of the requirements as amended by the last updating. The effective date of all those requirements not followed by any date shown in brackets is that of the reference edition.

- 3.2 Item 6 below provides a summary of the technical changes from the preceding edition. In general, this list does not include those items to which only editorial changes have been made not affecting the effective date of the requirements contained therein.

4. Rule Variations and Corrigenda

Until the next edition of the Rules is published, Rule Variations and/or corrigenda, as necessary, will be published on the TASNEEF web site (www.tasneef.ae). Except in particular cases, paper copies of Rule Variations or corrigenda are not issued.

5. Rule subdivision and cross-references

5.1 Rule subdivision

The Rules are subdivided into six parts, from A to F.

Part A: Classification and Surveys

Part B: Hull and Stability

Part C: Machinery, Systems and Fire Protection

Part D: Materials and Welding

Part E: Service Notations

Part F: Additional Class Notations

Each Part consists of:

- Chapters
- Sections and possible Appendices
- Articles
- Sub-articles
- Requirements

Figures (abbr. Fig) and Tables (abbr. Tab) are numbered in ascending order within each Section or Appendix.

5.2 Cross-references

Examples: Pt A, Ch 1, Sec 1, [3.2.1] or Pt A, Ch 1, App 1, [3.2.1]

- Pt A means Part A

The part is indicated when it is different from the part in which the cross-reference appears. Otherwise, it is not indicated.

- Ch 1 means Chapter 1

The Chapter is indicated when it is different from the chapter in which the cross-reference appears. Otherwise, it is not indicated.

- Sec 1 means Section 1 (or App 1 means Appendix 1)

The Section (or Appendix) is indicated when it is different from the Section (or Appendix) in which the cross-reference appears. Otherwise, it is not indicated.

- [3.2.1] refers to requirement 1, within sub-article 2 of article 3.

Cross-references to an entire Part or Chapter are not abbreviated as indicated in the following examples:

- Part A for a cross-reference to Part A
- Part A, Chapter 1 for a cross-reference to Chapter 1 of Part A.

RULES FOR THE CLASSIFICATION OF YACHTS

Part E Service Notations

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CHAPTER 1 PLEASURE > 500 GT

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Chapter 1

Pleasure > 500 GT

SECTION 1 ALTERNATIVES, RELAXATIONS OR ADDITIONAL CONSIDERATIONS FOR PLEASURE YACHTS OF MORE THAN 500 GT

1 General

1.1

1.1.1 The Society may allow in general relaxations to the requirements of part A, B, C, D and F for yachts of more than 500 GT when the yacht is pleasure.



Chapter 2

Pleasure > 24m LLL < 500GT

SECTION 1

HULL & STABILITY - ALTERNATIVES, RELAXATIONS, ADDITIONAL CONSIDERATIONS TO THE REQUIREMENTS SET IN PT B, CH 1, SEC 1 AND PT B, CH 1, APP 1

1 General

1.1 Stern and side doors below the weather deck and compartment below the freeboard deck to be used for recreational activities or other services having access openings in the hull

1.1.1 With reference to [5.1.5] and [5.4.1] Pt B, ch.1 sec.1 and Pt B, Ch.1 App.1 [1.1.4] and [1.4.1] as an alternative what below may be applied.

The means of closure of the shell opening is to be provided with proper gasket and adequate securing devices.

The characteristic of the means of closure depends on the distance of the lower edge of the closure from the maximum waterline.

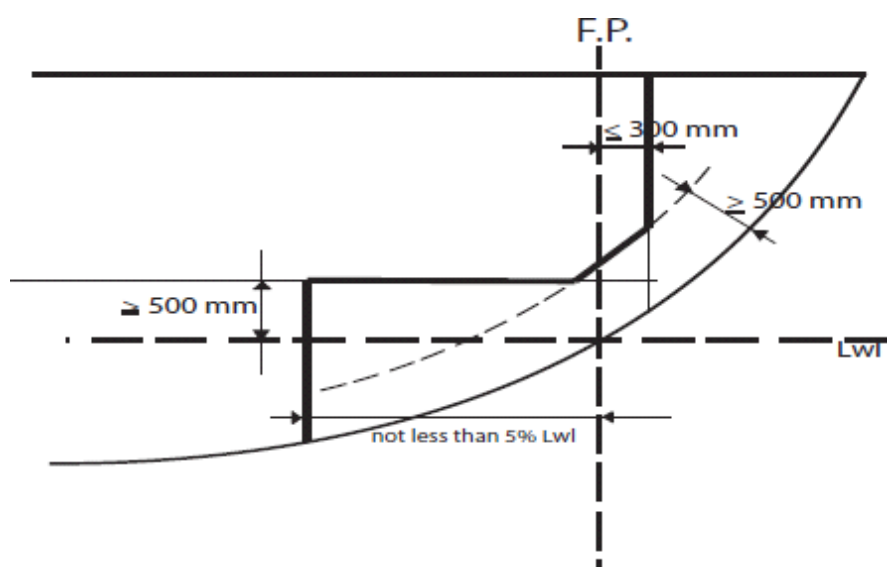
If such distance is equal to or more than 500 mm, or when the distance from the maximum waterline to the lower edge of the means of closure is less than 500 mm, but no essential equipment (The emergency bilge and/or the emergency fire pumps may be fitted there if the compartment does not contain petrol and have an access independent from the engine room and the side door) is installed in the compartment, and all the doors leading to internal compartments where essential equipment is installed are to be provided with watertight means of closure, the side/shell door has to pass only a water jet test as described in Pt B, Ch 1, App 1, [1.4.1] d). The lower part of each of these doors is, in general, to be above the deepest sea going condition.

1.2 Collision Bulkhead

1.2.1 As an alternative to Pt B, Ch 1, App 1, [1.2.1] a) what below may be applied:

a) the upper part of the bulkhead may be fitted at a distance less than 5%L from the forward perpendicular (but in any case not more than 300 mm ahead of the forward perpendicular). See Fig 1.

Figure 1



1.3 Sea connections and overboard discharges

1.3.1 (1/7/2025)

As an alternative to Pt B, Ch 1, Sec 1, [5.3.1] and Pt B, Ch 1, App 1, [1.3.1] what reported in [1.3.2] and [1.3.3] may be applied.

1.3.2 (1/7/2025)

All pipes leading to the sea and located under the full load waterline are to be of adequate thickness in general metallic, sea corrosion-resistant and electrochemically compatible with any different materials they may be connected to.

The above piping is to be provided with a metallic valve fitted at the shell.

The said valve may be omitted provided that:

- for non-sailing yachts, the side discharge is positioned at a point above 300 mm of height from the full load waterline or a point corresponding to full load waterline at an angle of heel of not more than 7°, whichever is greater;
- for sailing yachts, the sea discharge is positioned at a point corresponding to full load waterline, at an angle of heel of not more than 30° or at the angle of heel corresponding to the intersection of the deck with the side, whichever is the lesser;
- for non-sailing yachts, a metallic branch or a branch of material equivalent to that of the hull (i.e. GRP) is fitted between a point above 300 mm of height from the full load waterline or a point corresponding to full load waterline at an angle of heel of not more than 7°, whichever is greater.

In any case, an adequate metallic valve is to be fitted on the shell where it is ascertained that under operating conditions the yacht may assume an angle of heel for which the ingress of water cannot be avoided.

For yachts less than 300 GT, when the piping internal diameter is less than 100 mm, for the previously-mentioned piping fitted below the maximum waterline flexible hoses can be accepted provided that such piping has been tested fire resistant according to ISO 7840 (or an equivalent standard) for a period of time of not less than 10 minutes; for flexible hoses installed inside the engine room and closed spaces for the containment of fuel with a flash-point < 55° or vehicles with petrol in their tanks, the above fire test is to be carried out for the entire duration of the ISO 15540/15541 fire test.

The above piping is to be fitted with a metallic valve at the hull side.

1.3.3 (1/7/2025)

Pipes for the discharge of exhaust from the engines leading to the shell without a valve are to be made as follows:

- from below the maximum waterline up to 300 mm above the maximum water-line or to a waterline corresponding to a heeling angle of 7°, whichever is the greater, the piping is to be made of corrosion resistant material, galvanically compatible and resistant to exhaust products. The wall thickness pipe is to be not less than 5 mm if made of steel. If a composite material pipe is fitted the material is to have strength equivalent to that of side laminate or bottom laminate according to the location of the sea connection. The material is to be suitable to withstand the temperatures reached by the exhaust and in addition reference is to be made to the requirements of Ch 4, Sec 1, [6.2];
- 300 mm or more above the maximum waterline, flexible hoses complying with the requirements of ISO Standard 13363 may be accepted;
- such hoses are to be secured by means of at least two stainless steel hose clamps at each end. The clamps are to be at least 12 mm wide and are not to be dependent on spring tension to remain fastened. The joint location is to be readily accessible and visible at all times. Joints fitted lower than 300 mm above the maximum waterline may be accepted provided that they remain above the maximum waterline and additional bilge suction and an alarm are fitted in the area where the joints are located, or a watertight compartment is provided in the area where the joint is fitted. Where a metallic valve is fitted on the side in way of the sea connection, the exhaust pipe material is to be resistant to the exhaust temperature and non-metallic material may be accepted for the entire length. The non-metallic materials are to meet the requirements in App.1

1.4 Ventilators

1.4.1 With reference to Pt B, Ch 1, Sec 1, [5.10] for yacht of less than 300 GT the position of the air intake may be accepted below the weather deck, provided that the following requirements are satisfied:

- a) the minimum down flooding angle meets the minimum of the stability criteria
- b) means are provided to the satisfaction of the Society in order to guarantee the hull integrity.
- c) a bilge level alarm associated with additional automatic bilge pumps is to be provided inside the compartments where such ducts are fitted

d) the openings are fitted, as far as practicable, close to the weather deck and in any case are as small as possible.

1.5 Bulwark

1.5.1 With reference to [5.12.1] Pt B Ch 1 Sec 1 the minimum bulwark height may be reduced to 600mm..

1.5.2 The use of clips instead of continuous support is acceptable provided that the clips are spaces not more than 300mm. Only if polycarbonate as glazing material the clips may perforate the glazing, the details of such penetrations to be sent for examination and approval. The distance of the hole to the side of the glazing to be at least equal to the diameter of the hole. The clips have to cover the glazing for at least 2 times the relevant glazing thickness. The clips details have to be sent for examination.

1.6 Freeing ports

1.6.1 The area of freeing ports openings calculated according to Pt B Ch 1 Sec 1 [5.13.1] using $A=0,07l$ even in case of $l < 20m$. Also the value of F_{Preq} may be divided by 2.

2 Alternative, relaxations, additional considerations to the requirements set in Pt B, Ch 6, Sec 1

2.1 Stability

2.1.1 With reference to Pt B, Ch 6, Sec 1, [2.4.6] b) what above may be applied as an alternative:

a) stability booklet as photocopy of the prototype (y), only updated for the general description (vessel's name, port of registry, flag, etc).

SECTION 2

MACHINERY - ALTERNATIVES, RELAXATIONS, ADDITIONAL CONSIDERATIONS TO THE REQUIREMENTS SET IN Pt C, Ch 1

1 Diesel Engine

1.1 Pleasure Duty engines

1.1.1 (1/1/2025)

With reference to Pt C, Ch 1, Sec 2, [1.6], in addition to medium and light duty, the pleasure duty as defined below may be assigned. The same relaxations foreseen for light and medium duty apply also to pleasure duty. The parameters for pleasure duty are:

- $500 \leq O_{MAX} \leq 1000$
- $50 \leq O_{PMAX} \leq 100$
- $I_c \geq 0.2$
- $O_{MIN} = 500$

2 Gears

2.1 Pleasure Duty gears

2.1.1 (1/1/2025)

With reference to Pt C, Ch 1, Sec 6, [1.3], in addition to medium and light duty, the pleasure duty as defined below may be assigned. The same relaxations foreseen for light and medium duty apply also to pleasure duty. The parameters for pleasure duty are those in [1.1.1] and with reference to Pt C Ch 1 Sec 6 Tab.2 the safety coefficient to be used are:

- $K_A = 1.1$
- $S_H = 1.0$
- $S_F = 1.1$
- L_{h10a23} (following ISO 281-1) $\geq 3000h$

3 Propeller

3.1 Drawing approval

3.1.1 With reference to Pt C, Ch 1, Sec 8, [1.3], for propeller with diameter of less than 1.5m the approval of the drawing is not required.

4 Piping

4.1 Use of welded and threaded metallic joints

4.1.1 As an alternative to full application of Pt C, Ch 1, Sec 10, Tab 15, use of welded and threaded metallic joints in piping systems, what follow may be applied.

For yachts of less than 300GT: .

- sleeve parallel threaded joint are acceptable on pipes of class III with outside diameter of not more than 60mm if conveying fluid having flash point of more than 60°C
- sleeve tapered threaded joint are acceptable on pipes of class II and III with outside diameter of not more than 60mm if conveying fluid having flash point of more than 60°C.

4.2 Flexible hoses

4.2.1 The requirements Pt C, Ch 1, Sec 10, [2] may be applied as far as it is practicable and at least what required in Tab 1 is to be applied. In Tab 1 are reported the minimum requirements applicable to piping for each system depending on the location.

4.3 Bilge system

4.3.1 With reference to Pt C, Ch.1, Sec.10 [6.5.1] Number and arrangement of pumps, the second pump and suction may be portable.

4.3.2 As an alternative to the portable emergency pump a suitable number of submersible pumps one of each watertight compartment may be accepted.

4.3.3 The total number of pumps for bilge and fire system may be 2 provided that the two pumps are fixed independently powered, located in two different spaces, point c) above is satisfied and the requirement of both the systems are satisfied.

4.3.4 As an alternative to Pt C, Ch.1, Sec.10 [6.5.4] what below may be applied:

Capacity of pumps

a) The capacity of each pump or group of pumps is not to be less than:

$Q = 0,0058 d^2$ where:

Q : Minimum capacity of each pump or group of pumps, in m³/h

d : Internal diameter, in mm, of the bilge main as defined in [4.3.5].

b) If the capacity of one of the pumps or one of the groups of pumps is less than the Rule capacity, the deficiency may be compensated by an excess capacity of the other pump or group of pumps; as a rule, such deficiency is not permitted to exceed 30% of the Rule capacity.

c) Where an ejector is used in lieu of a driven pump, its suction capacity is not to be less than the required capacity of the pump it replaces.

Table 1

Requirements for each service and locations (1)		
System	Machinery space or other spaces with fire risk	Spaces without fire risk
Fuel oil system	Flexible hoses shall comply with the following requirements: - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10. [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - For yachts of not more than 300 GT, flexible hoses can be accepted for the whole length of the system, fire resistant in compliance with ISO 15540/15541 and certified suitable for use by the manufacturer in compliance with national or international recognized standards. End connections of flexible hoses different from the crimped type may be accepted, provided that in any case, the end attachments are to the Society satisfaction, and hoses complete with end connections are to be tested to verify fire resistance.	Flexible hoses shall comply with the following requirements: - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10, [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - For yachts of not more than 300 GT, flexible hoses can be accepted for the whole length of the system and fire resistant A1/A2 in compliance with ISO 7840
Hydraulic oil system	Flexible hoses can be used, whatever the gross tonnage of the yacht, according to the following requirements. - flexible hoses used for non essential services are not required to be fire resistant, but they are to be certified suitable for use by the manufacturer in compliance with national or international recognized standards - flexible hoses used for essential services (services whose failure can impair the safety of navigation); flexible hoses in compliance with Pt C, Ch 1, Sec 10, [2.5] can be accepted: they shall be type approved and fire resistant in compliance with ISO 15540/15541.	Flexible hoses can be used, whatever the gross tonnage of the yacht, according to the following requirements. Flexible hoses are not required to be fire resistant, but they are to be certified suitable for use by the manufacturer in compliance with national or international recognized standards.

Requirements for each service and locations (1)		
System	Machinery space or other spaces with fire risk	Spaces without fire risk
Fixed water fire extinguishing system	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10. [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, flexible hoses can be accepted for the whole length of the system, fire resistant in compliance with ISO 15540/15541 and certified suitable for use by the manufacturer in compliance with national or international recognized standards. End connections of flexible hoses different from the crimped type may be accepted, provided that in any case, the end attachments are to the Society satisfaction, and hoses complete with end connections are to be tested to verify fire resistance.	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10, [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, flexible hoses can be accepted for the whole length of the system, fire resistant and certified suitable for use by the manufacturer in compliance with national or international recognized standards. Fire resistance shall be ascertained by a fire test in compliance with ISO 7840 (or equivalent standard) for a period of not less than 10 min. End connections of flexible hoses different from the crimped type may be accepted, provided that in any case, the end attachments are to the Society satisfaction, and hoses complete with end connections are to be tested to verify fire resistance.
Bilge system	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10. [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, flexible hoses can be accepted for the whole length of the system, fire resistant in compliance with ISO 15540/15541 and certified suitable for use by the manufacturer in compliance with national or international recognized standards. End connections of flexible hoses different from the crimped type may be accepted, provided that in any case, the end attachments are to the Society satisfaction, and hoses complete with end connections are to be tested to verify fire resistance - reference is to be made to (2).	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10, [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, flexible hoses can be accepted made of material suitable for bilge use and capable of maintaining their integrity at a maximum working temperature of not less than 100 °C

Requirements for each service and locations (1)		
System	Machinery space or other spaces with fire risk	Spaces without fire risk
Cooling system	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10. [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, with the exclusion of the part of piping indicated in Pt B, Ch 1, Sec 1, [5.3.2], flexible hoses in compliance with ISO 13363 or equivalent, and certified suitable for use by the manufacturer in compliance with national or international recognized standards can be accepted - reference is to be made to (2).	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10, [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, with the exclusion of the part of piping indicated in Pt B, Ch 1, Sec 1, [5.3.2], flexible hoses in compliance with ISO 13363 or equivalent, and certified suitable for use by the manufacturer in compliance with national or international recognized standards can be accepted - reference is to be made to (2).
Scupper pipe	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with. In any case, they shall be certified suitable for use by the manufacturer - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10. [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, with the exclusion of the part of piping indicated in Pt B, Ch 1, Sec 1, [5.3.2], flexible hoses made of material suitable for the service and capable of maintaining their integrity at a maximum working temperature of not less than 100 °C can be accepted - reference is to be made to (2).	Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - flexible hoses can be accepted for the whole length of the system, in compliance with Pt C, Ch 1, Sec 10, [2.5]: they shall be type approved and fire resistant in compliance with ISO 15540/15541 - for yachts of not more than 300 GT, with the exclusion of the part of piping indicated in Pt B, Ch 1, Sec 1, [5.3.2], flexible hoses built in PVC reinforced with embedded steel wire and an additional fiber reinforcement or equivalent can be accepted. In any case, the flexible hose is to be certified suitable for use by the manufacturer - reference is to be made to (2).
Exhaust system	The requirements of Pt B, Ch 1, Sec 1, [5.3.3] are to be complied with	The requirements of Pt B, Ch 1, Sec 1, [5.3.3] are to be complied with

Requirements for each service and locations (1)		
System	Machinery space or other spaces with fire risk	Spaces without fire risk
Drinking water, black water and drainage of air-conditioning systems	Metallic hoses, flexible hoses. Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with. - for piping not connected to the sea through the side of the hull, flexible hoses can be accepted, certified suitable for the service by the manufacturer in compliance with national or international recognized standards. For piping connected to the sea through the side of the hull, flexible hoses certified fire resistant in compliance with ISO 15540/15541 can be accepted, provided that they are certified suitable for the service by the manufacturer - for yachts of not more than 300 GT, the requirements for the scuppers are applicable to piping connected to the sea through the side of the hull. In any case, the hoses are to be certified suitable for use by the manufacturer. - reference is to be made to (2).	Metallic hoses, flexible hoses. Flexible hoses shall comply with the following requirements: - the requirements of Pt B, Ch 1, Sec 1, [5.3] are to be complied with - for piping not connected to the sea through the side of the hull, flexible hoses can be accepted, certified suitable for the service by the manufacturer in compliance with national or international recognized standards. - for yachts of not more than 300 GT, the requirements for the scuppers are applicable to piping connected to the sea through the side of the hull. - in any case, the hoses are to be certified suitable for use by the manufacturer. Reference is to be made to (2).
(1) End connections different from the crimped type may be adopted only for Class III piping (2) a) All systems provided with external discharge through the side of the hull are to be fitted with a metallic valve on the side of the hull. b) The above valve may be omitted provided that: - for non-sailing yachts, the side discharge is positioned at a point 300 mm above the maximum waterline or a point corresponding to an angle of heel more than 7°, whichever is greater; - for sailing yachts, the sea discharge is positioned at a point corresponding to an angle more than 30° or more than the angle corresponding to the intersection of the deck with the side, whichever is the lesser; - for non-sailing yachts, a metallic branch or a branch of material equivalent to that of the hull (i.e. GRP) is fitted from the passage through the hull at a point 300 mm above the maximum waterline or a point corresponding to an angle of heel of 7°, whichever is the greater. c) In any case, an adequate non-return valve is to be fitted where it is ascertained that under operating conditions the yacht may assume an angle of heel for which the ingress of water cannot be avoided. d) Where joints are provided between the metallic branch and non-metallic pipe, they are to be adequate for the purpose. If joints with clamps are fitted, they are to be made of stainless steel. At least two clamps are to be fitted for each joint end. In general, the clamps are to be no less than 12 mm in width and are not to be dependent on spring tension to remain fastened.		

4.3.5 As an alternative to Pt C, Ch 1, Sec 10, [6.6.1] what below may be applied:

Bilge main line

The diameter of the bilge main is to be calculated according to the following formula:

$$d = 0,85L + 25$$

where:

d : Internal diameter of the bilge main, in mm, to be assumed not less than 32 mm

L : Rule length of the yacht, in m.

4.3.6 As an alternative to Pt C, Ch 1, Sec 10, [6.6.3] what below may be applied:

Branch bilge suction pipes

The internal diameter, in mm, of pipes situated between distribution boxes and suction in holds and machinery spaces is not to be less than the diameter given by the following formula:

$$d = 0,085L_1 + 25$$

where:

L₁ : Length of the compartment, in m.

4.3.7 (1/7/2025)

What required in Pt C, Ch 1, Sec 10, [6] may be applied as far as it is practicable and taking into account Tab 1.

4.4 Scuppers and Sanitary discharges

4.4.1 What required in Pt C, Ch 1, Sec 10, [8] may be applied as far as it is practicable and taking into account Tab 1.

4.5 Air pipes, sounding and overflow pipes

4.5.1 As an alternative to Pt C, Ch 1, Sec 10, [9.1.3]d) what follows may be applied.

Air pipes fitted on the side of the vessel may be accepted provided that the pipe is raised to a point close to the main deck. In any case, means are to be adopted to prevent oil spillage.

4.5.2 (1/7/2025)

With reference to Pt C, Ch 1, Sec 10, [9.4] may be applied as far as it is practicable and taking into account Tab 1.

4.6 Fuel oil System

4.6.1 What required in Pt C, Ch 1, Sec 10, [11] may be applied as far as it is practicable and taking into account Tab 1.

4.7 Lubricating oil System

4.7.1 What required in Pt C, Ch 1, Sec 10, [12] may be applied as far as it is practicable and taking into account Tab 1.

4.8 Hydraulic oil System

4.8.1 What required in Pt C, Ch 1, Sec 10, [13] may be applied as far as it is practicable and taking into account Tab 1.

4.9 Compressed air System**4.9.1 (1/1/2026)**

What required in Pt C, Ch 1, Sec 10, [14] may be applied as far as it is practicable and taking into account Tab 1.

4.10 Exhaust Gas System

4.10.1 What required in Pt C, Ch 1, Sec 10, [15] may be applied as far as it is practicable and taking into account Tab 1.

4.11 Certification, Inspection and Testing on Piping

4.11.1 What required in Pt C, Ch 1, Sec 10, [17] may be applied as far as it is practicable and relaxations may be agreed with the Society.

5 Steering System**5.1 Control of the steering gear**

5.1.1 As an alternative to Pt C, Ch 1, Sec 11, [2.2.1]. Control of the main steering gear may be according to what follows.

- a) Control of the main steering gear is to be provided on the navigation bridge.
- b) Where the main steering gear is arranged so that the main steering gear comprises two or more power units, two independent control systems are to be provided, both operable from the navigation bridge. This does not require duplication of the steering wheel or steering lever.

5.1.2 As an alternative to Pt C, Ch 1, Sec 11, [2.2.1]. Control of the auxiliary steering gear may be according to what follows.

- a) Control of the auxiliary steering gear is to be provided in the steering gear compartment or at the local steering control position.
- b) If the auxiliary steering gear is power operated, its control system is also to be independent of that of the main steering gear.

5.2 Rudder angle indication

5.2.1 As an alternative to Pt C, Ch 1, Sec 11, [2.7.4]. The angular position of the rudder is to be:

- a) indicated on the navigating bridge, if the main steering gear is power operated
- b) recognisable in the steering gear compartment, as applicable, or at the local steering control station.

6 Tests on board

6.1 Main propulsion engines driving fixed propellers

6.1.1 (1/1/2026)

With reference to Pt C, Ch 1, Sec 16, [3.3.5] a) for yachts having gross tonnage less than 300 GT, the duration of the test can be reduced to 30 minutes, provided, however, that the TASNEEF surveyor in charge of the checks considers this duration exhaustive.

7 Plastic pipes

7.1 General

7.1.1 As an alternative to Pt C, Ch 1, App 3 the requirements set in [4] and App 1 may be applied.

SECTION 3

ELECTRICAL INSTALLATION AND AUTOMATION SYSTEMS - ALTERNATIVES, RELAXATIONS AND ADDITIONAL CONSIDERATIONS TO REQUIREMENTS SET IN PT C, CH 2 AND PT C, CH 3

1 General

1.1 Application

1.1.1 In addition to Pt C, Ch 2, App 1 and Pt C, Ch 3, App1, the following may be applied.

2 Electrical Installations

2.1 General Design Requirements (Section 2)

2.1.1 With reference to Pt C, Ch 2, Sec 2, [1.7] and Tab 5 are not mandatory. As an alternative the following may be applied: enclosures for electrical equipment are to be mechanically strong and rigid, and mounted so that the equipment will not be affected by the distortion, vibration or movement of the vessel's structure that occur during normal operation of the vessel.

2.2 System Design (Section 3)

2.2.1 With reference to Pt C, Ch 2, Sec 3, [3.4.1], [3.9.4] are not mandatory.

2.2.2 With reference to Pt C, Ch 2, Sec 3, [6.5], as an alternative what at [2.2.3] may be applied.

2.2.3 The selection, arrangement and characteristics of the circuit protections are to be such that the maximum continuity of service to healthy circuits under fault conditions are ensured.

This may be achieved through selective operations of the various protective devices, the coordination between the electrical characteristics of the protected circuit or apparatus and the tripping characteristics of the protective devices.

3 Automation Systems

3.1 Application

3.1.1 Pt C, Ch 3, Sec 2, [1.1.6] is not mandatory.

3.1.2 (1/1/2025)

Pt C, Ch 3, Sec 3 and Appendix 3 are applicable as far as it is practicable and in particular for yachts of less than 300GT in general for the other Sections of Chapter 3 specific relaxations and alternative considerations may be done.

3.1.3 (1/1/2025)

With reference to [3.1.1] and [3.1.2], the Society reserves the right to apply Pt C, Ch 3 (as a whole or partially) in the case of non-conventional design or if it is deemed necessary, for the safety of the yacht, the evaluation of the system, equipment or components. A set of documents to be sent to the Society have to be agreed accordingly at the first stage of a new project.

SECTION 4 FIRE PROTECTION - ALTERNATIVES , RELAXATIONS, ADDITIONAL CONSIDERATIONS TO THE REQUIREMENTS SET IN Pt C, Ch 4

1 General

1.1 Application

1.1.1 This Alternatives, Relaxations, Additional consideration to Pt C, Ch 4, Sec 1 to Sec 9 are in addition to those of Pt C, Ch 4, App 1.

2 Fire containment

2.1 Class divisions

2.1.1 (1/1/2026)

With reference to Pt C, Ch 4, Sec 3 as an alternative to [3.1.2] to [3.1.5] and Pt C, Ch 4, App 1, [2.1.1] what below may be applied.

For yachts exceeding 300 GT built of composite material aluminium and wood, category A machinery spaces are to be totally enclosed by B-15 class boundaries.

For the foregoing yachts, galleys are to be totally enclosed by B-0 class boundaries (bulkheads, side shell and deck heads). Windows within the exterior hull or superstructure within this boundary are not expected to meet "B-0" standards. It is not necessary to extend the fire insulation below the minimum waterline.

For yachts of less than 300GT, and for yachts made of steel of any GT what above is not mandatory.

With reference to Pt C, Ch 4, Sec 3, [3.1.8] and [3.7.1], the Society may evaluate the possibility to accept a window on the bulkhead dividing the engine control room not located inside the engine room and the engine room itself provided that its dimension is less than 0,5m² and it is certified with A-60 fire class.

2.1.2 (1/1/2025)

Pt C, Ch 4, Sec 3, [3.2.3] is not mandatory.

2.1.3 With reference to Pt C, Ch 4, Sec 3 as an alternative to [4.1.2] and Pt C, Ch 4, App 1, [2.2.1] what below may be applied.

For yachts exceeding 300 gross tonnage, ventilation ducts serving category A machinery spaces, galleys, spaces containing vehicles or craft with fuel in their tanks, or lockers containing fuel tanks are not to cross accommodation spaces, service spaces or control stations unless the trunking is constructed of steel (minimum thickness 4 mm) or the walls are equivalent to B-15 class divisions for machinery spaces and B-0 class divisions for galleys to a point at least 5 metres from the space concerned.

Where the trunking passes from the machinery space or galley into the accommodation, automatic fire dampers are to be provided in the deck or bulkhead within the accommodation.

The automatic fire dampers are also to be manually operable from outside the machinery space or galley.

The requirements above also apply to ventilation ducts for accommodation spaces passing within category A machinery spaces.

For yachts of less than 300GT what above is not mandatory.

2.1.4 With reference to Pt C, Ch 4, Sec 3, [4.1.9] the above means may be avoided for openings located at least 1m above the freeboard deck and 0,5m above the 1st tier superstructure deck or above.

3 Protection of spaces containing vehicles or craft with fuel in their tanks or lockers storing such fuels

3.1 General

3.1.1 With reference to Pt C, Ch 4, Sec 6 as an alternative to [2] what below may be applied.

For yachts of less than 300 GT, what required [2.1.1] as far as the ventilation requirement may be replaced from what below:

- a) The surface of the said openings shall not be less than the area of the ventilation openings, calculated in agreement with ISO 11105, increased by 20%..

In any case, the natural air flow is to be such as to extract any gasoline vapour during normal running conditions, and

- b) An explosion proof extractor capable of grant at least 6 air changes per hour and be activated in case of activation of the fixed flammable gas detector alarm, is to be provided; the indication of ventilation rate reduction required, in this case can be omitted.

When the extractor is not activated automatically, clear instructions shall be affixed for the crew, for the activation of the extractor.

For the items not explicitly required in this subparagraph, the requirements of [2.1.1] are to be deemed applicable.

4 Fire applications

4.1 Application

4.1.1 With reference to Pt C, Ch 4, Sec 8, [2.1] and [2.3] and Pt C, Ch 4, App 1, [3.1] for yachts less than 300 GT, one of the two requested pumps may be a portable motor pump, to be stored in a compartment different from the one where the other pump is fitted. Such portable motor pump is to be equipped with a suction hose. The suction hose is to be built so that it will not collapse because of the low pressure on the suction side.

4.1.2 With reference to Pt C, Ch 4, Sec 8 as an alternative to [2.3.1] what below may be applied.

Table 1

Vessel length (L _{LL})	Minimum capacity
Below 20 m	5,5 m ³ /h
At least 20 m but less than 30 m	11,0 m ³ /h
30 m or greater	14 m ³ /h

In addition when the pump is discharging at full capacity through two adjacent fire hydrants, is to be capable of maintaining a water pressure of 0,1 N/mm² at any hydrant.

4.1.3 With reference to Pt C, Ch 4, Sec 8 as an alternative to [2.3.5] through over sea suction may be acceptable.

4.1.4 With reference to Pt C, Ch 4, Sec 8, [2.4.7]. The easy accessible valve to isolate the fire main in ER is suggested but is not mandatory.

4.1.5 (1/7/2025)

With reference to Pt C, Ch 4, Sec 8, [2.4.3] what reported in Sec 2, Tab 1 may be taken into account.

APPENDIX 1

PLASTIC PIPES AND OTHER NON-METALLIC PIPES

1 General

1.1 Application

1.1.1 These requirements are applicable to all piping systems with parts made of rigid plastic and other non-metallic material.

1.2 Use of plastic pipes

1.2.1 (1/7/2025)

Plastic pipes may be used for the different services under the conditions given in this chapter.

Plastic pipes may be used in the following systems installed in machinery spaces or in other spaces with fire risk provided that they have adequate fire resistance:

- Fuel oil system, hydraulic oil and , oil lubricating system and relevant filling and vent pipes;
-
- Fixed water fire extinguishing system;
- Cooling system;
- Bilge system;
- Scupper pipe.

1.2.2 All systems provided with external discharge through the side of the hull are to be fitted with a suitable metallic valve on the side of the hull.

The said valve may be omitted provided that:

- for non-sailing yachts, the side discharge is positioned at a point above 300 mm of height from the full load waterline or a point corresponding to full load waterline at an angle of heel of not more than 7°, whichever is greater;
- for sailing yachts, the sea discharge is positioned at a point corresponding to full load waterline, at an angle of heel of not more than 30° or at the angle of heel corresponding to the intersection of the deck with the side, whichever is the lesser;
- for non-sailing yachts, a metallic branch or a branch of material equivalent to that of the hull (i.e. GRP) is fitted between a point above 300 mm of height from the full load waterline or a point corresponding to full load waterline at an angle of heel of not more than 7°, whichever is greater.

In any case, an adequate metallic valve is to be fitted on the shell where it is ascertained that under operating conditions the yacht may assume an angle of heel for which the ingress of water cannot be avoided.

1.2.3 Plastic pipes and fittings are to be accepted, in general, for class II and III piping systems.

1.3 Definitions

1.3.1 Plastic

Plastic includes both thermoplastic and thermosetting plastic materials with or without reinforcement, such as PVC and FRP (reinforced plastics pipes).

1.3.2 Piping systems

Piping systems include the pipes, fittings, joints, and any internal or external liners, coverings and coatings required to comply with the performance criteria.

1.3.3 Joints

Joints include all pipe assembling devices or methods, such as adhesive bonding, laminating, welding, etc.

1.3.4 Fittings

Fittings include bends, elbows, fabricated branch pieces, etc. made of plastic materials.

1.3.5 Nominal pressure

Nominal pressure is the maximum permissible working pressure.

1.3.6 Design pressure

Design pressure is the maximum working pressure which is expected under operation conditions or the highest set pressure of any safety valve or pressure relief device on the system, if fitted.

2 Design of plastic piping systems

2.1 General

2.1.1 Specification

The specification of the plastic is to comply with a recognised national or international standard approved by the Society. In addition, the requirements stated below are to be complied with.

2.2 Strength

2.2.1 General

- a) The piping is to have sufficient strength to take account of the most severe concomitant conditions of pressure, temperature, the weight of the piping itself and any static and dynamic loads imposed by the design or environment.
- b) The maximum permissible working pressure is to be specified with due regard for the maximum possible working temperature in accordance with the Manufacturer's recommendations.

2.2.2 Permissible pressure

Piping systems are to be designed for a nominal pressure determined from the following conditions:

a) Internal pressure

The hydrostatic bursting pressure is to be not less than five times the design pressure for thermostatic pipes and thermoplastic pipes and four times the design pressure for reinforced thermosetting resin pipes. The wall thickness for plain-end thermoplastic pipes is not to be less than schedule 40 and the wall thickness for threaded thermoplastic pipes is not to be less than schedule 80.

The wall thickness of reinforced thermosetting resin pipes is to be in accordance with the Manufacturer's standard based on burst test data.

b) External pressure (to be considered for any installation subject to vacuum conditions inside the pipe or a head of liquid acting on the outside of the pipe)

The nominal external pressure is not to exceed $P_{col}/3$, where:

P_{col} : Collapse pressure

Note 1: The external pressure is the sum of the vacuum inside the pipe and the static pressure head outside the pipe.

c) The collapse pressure is not to be less than 0,3 MPa.

2.2.3 Permissible temperature

- a) In general, plastic pipes are not to be used for media with a temperature above 60°C or below 0°C, unless satisfactory justification is provided to the Society.
- b) The permissible working temperature range depends on the working pressure and is to be in accordance with the Manufacturer's recommendations.
- c) The maximum permissible working temperature is to be at least 20°C lower than the minimum heat distortion temperature of the pipe material, determined according to ISO 75 method A or equivalent.
- d) The minimum heat distortion temperature is not to be less than 80°C.

2.3 Pipe and fitting connections

2.3.1 General

- a) The strength of connections is not to be less than that of the piping system in which they are installed.
- b) Pipes and fittings may be assembled using adhesive-bonded, welded, flanged or other joints.
- c) When used for joint assembly, adhesives are to be suitable for providing a permanent seal between the pipes and fittings throughout the temperature and pressure range of the intended application.
- d) Tightening of joints, where required, is to be performed in accordance with the Manufacturer's instructions.

2.4 Electrical conductivity

2.4.1

- a) Piping systems conveying fluids with a conductivity less than 1000 pS/m ($1\text{pS/m}=10^{-12}$ siemens per metre), such as refined products and distillates, are to be made of conductive pipes.
- b) Regardless of the fluid to be conveyed, plastic pipes passing through hazardous areas are to be electrically conductive.
- c) Where electrical conductivity is to be ensured, the resistance of the pipes and fittings is not to exceed:
 $1 \times 10^5 \text{ Ohm/m}$.
- d) It is preferred that pipes and fittings are homogeneously conductive. Where pipes and fittings are not homogeneously conductive, conductive layers are to be provided, suitably protected against the possibility of spark damage to the pipe wall.
- e) Satisfactory earthing is to be provided.

3 Arrangement and installation of plastic pipes

3.1 General

3.1.1 Plastic pipes and fittings are to be installed in accordance with the manufacturer's guidelines.

3.1.2 Pipes are to be protected from mechanical damage where necessary.

3.2 Supporting of the pipes

3.2.1

- a) Selection and spacing of pipe supports in shipboard systems are to be determined as a function of allowable stresses and maximum deflection criteria.
- b) Support spacing is not to be greater than the pipe Manufacturer's recommended spacing.

3.2.2 Each support is to evenly distribute the load of the pipe and its content over the full width of the support. Measures are to be taken to minimise wear of the pipes where they are in contact with the supports.

3.2.3 Heavy components in the piping system such as valves and expansion joints are to be independently supported.

3.3 Provision for expansion

3.3.1 Suitable provision is to be made in each pipeline to allow for relative movement between pipes made of plastic and the steel structure, having due regard to:

- the high difference in the coefficients of thermal expansion
- deformations of the yacht's structure.

3.4 Earthing

3.4.1 Where, in pursuance of [2.4], pipes are required to be electrically conductive, the resistance to earth from any point in the piping system is not to exceed $1 \times 10^6 \text{ ohm}$.

3.4.2 Where provided, earthing wires are to be accessible for inspection.

3.5 Penetration of fire divisions and watertight bulkheads or decks

3.5.1 Where plastic pipes pass through fire class divisions, arrangements are to be made to ensure that fire endurance is not impaired.

3.5.2 When plastic pipes pass through watertight bulkheads or decks, the watertight integrity of the bulkhead or deck is to be maintained providing a metallic shut-off valve operable from above the freeboard deck at the bulkhead or deck. This valve may be omitted if the penetration is fitted at a distance more than B/3 from the sides and above the design waterline, or somehow protected with watertight divisions from minor hull damages.

4 Testing of plastic piping

4.1 Certification

4.1.1 A Manufacturer's declaration of conformity to the approved type is to be supplied.

4.2 Testing after installation on board

4.2.1 Hydrostatic testing

- a) Piping systems for fuel oil systems are to be subjected to a test pressure of not less than 1,5 times the design pressure or 0,4 MPa, whichever is the greater.
- b) Piping systems for other services are to be checked for leakage under operational conditions.

4.2.2 Earthing test

For piping required to be electrically conductive, earthing is to be checked and random resistance testing is to be performed.



Chapter 3

Pleasure < 24m

SECTION 1 ALTERNATIVES, RELAXATIONS ADDITIONAL CONSIDERATION FOR PLEASURE YACHTS OF LESS THAN < 24M

1 General

1.1 Application

1.1.1 As a general rules what required by Pt A, B, C, D may be applied with alternative solution agreed with the Society where necessary.