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**AUSTRALIAN NAVAL CLASSIFICATION AUTHORITY MANUAL  
(VOLUME 2)**

**DIVISION 3: SHIP RULES  
CHAPTER 12: HABITABILITY  
PART 1: ANC RULES**



This document is issued for use by Defence and Defence Industry personnel and is effective forthwith.

A handwritten signature in black ink, appearing to read 'CN Dagg'.

**CN Dagg, CSC**  
Assistant Secretary  
Australian Naval Classification Authority  
Department of Defence  
CANBERRA ACT 2600  
May 2024 Edition

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**ANCA Manual (Volume 2)**

Division 3: Ship Rules, Chapter 12: Habitability, Part 1: ANC Rules, May 2024 Edition

**Developer:**

Australian Naval Classification Authority

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<sup>1</sup> <https://www.legislation.gov.au/Series/C1968A00063>

<sup>2</sup> <https://www.legislation.gov.au/Series/C2004A04868>

<sup>3</sup> <https://www.legislation.gov.au/Series/C2004A03712>

<sup>4</sup> <http://drnet/AssociateSecretary/security/policy/Pages/dspf.aspx>

## **AUSTRALIAN NAVAL CLASSIFICATION RULES**

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<sup>5</sup> <https://www.defence.gov.au/business-industry/industry-governance/australian-naval-classification-authority/australian-naval-classification-rules>

## **AMENDMENTS**

Proposals for amendments to the ANCA Manual (Volume 2) may be sent to:

Australian Naval Classification Authority

Mail to: [anca.correspondence@defence.gov.au](mailto:anca.correspondence@defence.gov.au)

## **EDITIONS**

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Division 3: Ship Rules  
Part 1: ANC Rules

## Chapter 12: Habitability

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**Australian Naval Classification Rules****Rule 0. Goal**

- 0.1 The Naval Vessel arrangements and systems that support the habitability of embarked persons shall be designed, constructed, and maintained to:
  - 0.1.1 Ensure habitable conditions for living and working on board;
  - 0.1.2 Provide accommodation and recreational facilities designed to optimise the health, safety, and comfort; and
  - 0.1.3 Ensure that the storage, preparation and serving of food and drinking water is of appropriate quality and quantity that covers the requirements of the Naval Vessel and takes into account the differing cultural and religious backgrounds.

**Rule 1. General****Functional Objective**

- 1.1 The purpose of this Rule is to outline the principles and framework of Division 3 Chapter 12 *Habitability* and its application.

**Scope**

- 1.2 The Rules of this chapter define the minimum set of requirements for living and working spaces onboard a Naval Vessel consistent with promoting embarked persons health and well-being.
- 1.3 Division 2 Chapter 01 *General Requirements* applies to all chapters of this division, as applicable to the design. In order to meet the Chapter 12 *Habitability* goal, the requirements of both this chapter and Division 2 Chapter 01 *General Requirements* shall be met.

**General Performance Requirements**

- 1.4 Designers shall refer to the OSI to determine the numbers and types of embarked persons and the operational conditions and durations for which they are to be accommodated to meet the requirements of this Chapter.

**Rule 2. Internal Environment****Functional Objective**

- 2.1 The internal environment of the Naval Vessel shall enable the Embarked Persons to safely and comfortably work, eat, sleep, relax, study and train while onboard.

**Performance Requirements**

- 2.2 The internal ambient conditions of living and working spaces shall be kept within comfortable temperature and humidity limits for human occupation at the associated maximum and minimum external operating air and sea water temperatures as defined in the OSI.

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Note: See Chapter 04 *Engineering Systems* Rule 19 *Heating, Ventilation and Air Conditioning (HVAC)* for internal ambient conditions requirements.

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2.3 Lighting shall be provided at illumination levels appropriate to the function of the space.

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Note: See Chapter 04 *Engineering Systems* Rule 14 *Lighting* for illumination requirements.

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2.4 The materials used to construct living and working spaces shall be suitable for the purpose and conducive to ensuring a safe and healthy environment.

### Rule 3. Noise and Vibration

#### Functional Objective

3.1 Embarked persons shall be able to safely work and rest on board without adverse effects from noise and vibration.

#### Performance Requirements

3.2 Exposure of embarked persons within living and working spaces to noise shall be minimised SFARP, ensuring that levels do not exceed limits hazardous to the health of embarked persons.

3.3 Exposure of embarked persons to vibration shall be minimised SFARP within living and working spaces.

### Rule 4. Naval Vessel Configuration

#### Functional Objective

4.1 The Naval Vessel configuration shall locate and size spaces and transits to ensure embarked persons' effectiveness, safety and comfort whilst enabling the capability's efficient delivery throughout the ship's capability lifecycle.

#### Performance Requirements

4.2 The overall ship configuration shall be efficient and effective in supporting its functional requirements in accordance with the OSI while providing a safe and habitable environment for the embarked persons.

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#### Notes:

See Division 2 Chapter 01 *General Requirements* for requirements relating to hazardous areas.

See Chapter 06 *Fire Safety* for requirements relating to firefighting equipment.

See Chapter 07 *Escape, Evacuation and Rescue* for requirements relating to escape routing and casualty handling requirements.

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4.3 Provision shall be made for both male and female embarked persons as per the OSI.

4.4 The movement of stores and equipment within accommodation spaces shall be safe and efficient, without impeding living and working access or the requirements for escape and evacuation routes.

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Note: See Chapter 07 *Escape, Evacuation and Rescue* for requirements relating to Escape Routes.

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4.5 Arrangements for accommodation spaces shall ensure a high standard of comfort and safety.

**Rule 5. Sleeping and Cabin Arrangements****Functional Objective**

- 5.1 Berths shall be arranged for each embarked persons in order to provide individual privacy, safety, comfort and good sleep quality during all foreseeable environmental conditions defined in the OSI.
- 5.2 Cabins shall be arranged to provide space, furniture, equipment, features and fittings to enable the occupants to sleep, relax, dress and, for senior personnel, to carry out administrative and official duties of their rank and responsibilities.
- 5.3 Cabin arrangements shall prioritise the health and safety of the occupants during all foreseeable operational conditions.

**Performance Requirements**

- 5.4 Cabins shall include provision of adequately sized sleeping facilities that promote good sleep quality, comfortable rest, relaxation and privacy for all embarked persons.
- 5.5 Cabins shall be designed for the safe movement, seating and sleeping of the occupants in all foreseeable environmental conditions.
- 5.6 Cabins shall be sized, furnished and equipped commensurate with rank and function.

**Rule 6. Hygiene****Functional Objective**

- 6.1 Cleaning facilities shall be provided, and compartments shall be fitted out to allow for deep cleaning, to support the good health and effectiveness of embarked persons.
- 6.2 Sanitation and laundry facilities shall be provided to enable all embarked persons to maintain good personal hygiene levels whilst on board.
- 6.3 Waste management facilities shall be provided to ensure all waste generated on board is efficiently collected and made ready for disposal in a hygienic and environmentally safe manner.

**Performance Requirements**

- 6.4 Accommodation spaces shall be designed to promote personal hygiene and ship cleanliness.

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Note: See Chapter 14 *Environmental Protection* Rule 4 *Garbage Pollution Prevention*.

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- 6.5 Sanitary facilities shall be provided in sufficient quantity and fittings, and convenient locations and fit out to enable all embarked persons to maintain good personal hygiene levels while meeting privacy requirements.
- 6.6 Appropriately situated and furnished laundry facilities shall be provided adequate for use for the number of embarked persons as per the OSI.



**Rule 7. Stores****Functional Objective**

- 7.1 The ready availability of consumables and spare parts on board shall be ensured by the provision of suitably located, dimensioned and organised storerooms and issue rooms, maintained within the environmental parameters required by their contents.

**Performance Requirements**

- 7.2 Stores required by the Naval Vessel OSI shall be located, configured, constructed, equipped and sized considering the handling requirements and hazards associated with their contents and the endurance requirement of the Naval Vessel.

**Rule 8. Food Preparation and Handling****Functional Objective**

- 8.1 Means shall be provided for hygienically preparing and serving food in quantities and quality suitable for daily meal requirements of all embarked persons.

**Performance Requirements**

- 8.2 The galley, food preparation and handling area shall be designed to ensure the safest and most efficient working environment for catering personnel whilst enabling the continuous provision of food to all embarked persons under all foreseeable operational and environmental conditions specified in the OSI.
- 8.3 The design and overall layout of catering compartments shall prioritise safety and food hygiene.
- 8.4 Administration space for the galley operations shall be provided if required by the OSI.
- 8.5 Means shall be provided as part of the Naval Vessel communication system to communicate between the provision storerooms, galley, pantries and catering offices.

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Note: See Chapter 08 *Safety Communication* for the requirements relating to internal communications.

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**Rule 9. Food Service, Dining and Clearing****Functional Objectives**

- 9.1 The Naval Vessel shall be provided with the means for all embarked persons to efficiently, hygienically, and comfortably receive and consume meals, beverages, and snacks on a daily basis.
- 9.2 The design of the Naval Vessel's catering facilities shall enable the efficient and hygienic clearing, washing, and storing of mess gear and the collection of associated waste.

**Performance Requirements**

- 9.3 The food service areas shall have appropriate facilities to hygienically maintain food at their required temperatures (both hot and cold).
- 9.4 Separate group dining facilities of appropriate size shall be provided for each of the embarked persons to dine in comfort taking into account their hierarchical groups according to the OSI.
- 9.5 Facilities for refreshments shall be available 24 hours to all embarked persons.

- 9.6 The Naval Vessel shall have dedicated spaces for the efficient and hygienic collection and cleaning of mess gear and removal of waste from dining.
- 9.7 Food service, dining and clearing facilities shall be designed for safe use by embarked persons in all foreseeable environmental conditions specified in the OSI.

## **Rule 10. Recreation, Group Activity Arrangements and Offices**

### **Functional Objective**

- 10.1 Internal recreational areas and facilities shall be provided to enable embarked persons to relax, self-improve and communicate, both with each other and with personnel ashore, to give a good quality of life and maintain good morale on board.
- 10.2 Office and training facilities shall be provided to ensure the efficient functioning of the ship and its departments.

### **Performance Requirements**

- 10.3 Recreational spaces and facilities shall be provided for all embarked persons with consideration to their special needs and rank, and health and wellbeing.
- 10.4 Training and education facilities shall be provided as per the OSI.
- 10.5 Office spaces and facilities shall be provided as per the OSI.