

Regulations of 17 December 1986 No. 2318 on the construction and equipment of living quarters on mobile offshore units

Legal basis: Laid down by the Norwegian Maritime Authority on 17 December 1986 under the Act of 9 June 1903 No. 7 relating to public control of the seaworthiness of ships etc. Legal basis amended to Act of 16. February 2007 No. 9 relating to ship safety and security (Ship Safety and Security Act) sections 9, 21, 25, 26, 27, 28a and 45, cf. Formal Delegation of 16 February 2007 No. 171, Formal Delegation of 31 May 2007 No. 590 and Formal Delegation of 19 August 2013 No. 1002.

EEA references: EEA Agreement Annex II Chapter XIX No. 1 (Directive 98/34/EC).

Amendments: Amended by Regulations of 2 March 1999 No. 400, 11 April 2003 No. 495, 29 June 2007 No. 1006 (i.a. legal basis), 14 March 2008 No. 305, 19 August 2013 No. 1036, 20 December 2016 No. 1776, 19 December 2017 No. 2322.

Chapter 1 General

Section 1

Definitions

For the purpose of these Regulations, the following definitions shall apply:

1. *Unit:* Mobile platforms, including drilling ships, equipped for drilling for subsea petroleum deposits, and mobile platforms for other use than drilling for subsea petroleum deposits.
2. *Company:* Cf. the definition given in section 4 of the Ship Safety and Security Act.
3. *Safety Management System:* All systematic efforts which the company is required to make to ensure that activities are planned, organized, performed and maintained in accordance with requirements applicable to areas regulated by the Act of 16 February 2007 No. 9 relating to ship safety and security.
5. *Mustering station:* A meeting place for entering lifeboats and liferafts.
6. *Emergency station:* A meeting place for personnel who are assigned special duties in an emergency situation.

Amended by Regulations of 2 March 1999 No. 400 (in force on 1 Sept 1999), 11 April 2003 No. 495 (in force on 1 July 2003), 29 June 2007 No. 1006 (in force on 1 July 2007), 14 March 2008 No. 305.

Section 2

Scope of application

1. These Regulations apply to mobile offshore units which are registered or which will be registered in a Norwegian Register of Ships.
2. Mobile offshore units which are registered in a Norwegian ship register may, until the next certificate issue, comply with the requirements that applied at the time of the last certificate issue.

Amended by Regulation of 11 April 2003 No. 495 (in force on 1 July 2003).

Section 3

Duties

The company, employer, offshore installation manager and others who have their work on board shall perform their duties in accordance with the Ship Safety and Security Act and the supplementary provisions laid down in these Regulations.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 29 June 2007 No. 1006 (in force on 1 July 2007), 19 August 2013 No. 1036 (in force on 20 August 2013).

Section 4

Documentation

The company shall be able to document that the requirements of these Regulations are complied with. Documentation shall be sent to the Norwegian Maritime Authority on request. The contents, scope and type of documents and the time of submission shall be decided by the Norwegian Maritime Authority.

Amended by Regulations of 2 March 1999 No. 400 (in force on 1 Sept 1999), 11 April 2003 No. 495 (in force on 1 July 2003), 29 June 2007 No. 1006 (in force on 1 July 2007).

Section 5

Repealed by Regulation of 11 April 2003 no.495, in force on 1 July 2003.

Section 5 A

Mutual recognition

Where the Regulations require that particular fittings, materials, equipment or devices or type of equipment etc. be procured or found on a vessel, or that some specific measure be taken or the construction or design safety specific requirements, the Norwegian Maritime Authority shall permit that other appurtenances, materials, devices or types of such are installed or found on the vessel or that other measures are taken on board or that the vessel is built or designed in another way.

The Norwegian Maritime Authority shall accept this provided that it is documented by testing or other means that the appurtenances, materials, equipment or devices or types of such, or the arrangement, construction or design is at least as effective as specified by the requirements of the Regulations.

The Norwegian Maritime Authority shall accept the results of tests performed by recognized testing institutions, including testing institutions in other EEA countries. Such acceptance will be given on condition that the tests give an appropriate and satisfactory guarantee of a technical, professional, and independent nature.

Added by Regulation of 2 March 1999 No. 400 (in force on 1 Sept 1999).

Chapter II Living quarters, etc.

Section 6

Location of living quarters

The location of living quarters shall be based on a risk assessment in accordance with the Regulations of 22 December 1993 No. 1239 on risk analyse for mobile offshore units.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 6a

Marking in living quarters

1. Living quarters shall be marked so that it is easy to find one's way.
2. Rooms in the living quarters shall be clearly marked with intended use.

Added by Regulation of 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 7

Structural requirements

1. Living quarters shall be furnished and equipped for both sexes. External decks and bulkheads in living quarters which are exposed to the weather or are adjacent to machinery, equipment, work areas, etc. shall be adequately insulated. The insulation shall have a K-value not exceeding 0.50. The insulation material shall be laid so as to avoid condensation and shall be securely fastened.
2. For bulkheads and decks in or adjacent to living quarters, constructions having noise reduction properties complying with the requirements that apply to mobile offshore units in the Regulations of 1 January 2005 No. 8 on the working environment, health and safety of workers on board ship Chapter 15, shall be used.
3. Living quarters shall be arranged so as to maintain a proper hygienic standard. All materials used shall have a surface easily kept clean.
4. Bulkheads surrounding engine spaces, heated tanks and areas with low and/or high temperatures bounding directly on living quarters, and also steam and hot water piping in living quarters shall be adequately insulated.
5. Piping systems which through leakage may cause damage to persons or environment shall not be lead through living quarters.
6. Bulkheads and ceilings in sanitary rooms shall be of steel or another equivalent material and be insulated against external bulkheads.
7. Ceiling height in living quarters where unrestricted movement is necessary shall be at least 2300 mm, measured from the top of the finished floor to the lower edge of the ceiling.
8. Free width in corridors shall be at least 1000 mm.
9. Door frames in living quarters shall have an interior width of at least 750 mm. Door frames in doors to sanitary rooms and to toilet enclosures in common sanitary rooms may nevertheless have an interior width of 600 mm. The door frame to the health office shall have an interior width of at least 850 mm. Doors shall have a height above deck of at least 2050 mm.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 8

Corridors, exits, emergency exits and escape routes

1. From each deck in the living quarter there shall be at least 2 exits to an open deck, and an interior staircase.
2. All common rooms of more than 20 m² shall have at least 2 exits/staircases placed on opposite sides of the room. Doors in common rooms shall open outwards.
3. Blind passageways of more than 5 metres in length shall have an emergency exit/escape route. The emergency exits/escape routes shall have a width of at least 600 x 800 mm.
4. All doors and hatches in emergency exits shall open in the direction of the escape route and shall be easily opened from each side by one person. Doors and hatches with dog bolts shall be operated centrally. Doors to cabins shall be equipped with a kick-through panel or be unlockable.
5. Staircases, emergency exits and escape routes shall not be obstructed or covered, and they shall be so arranged as to provide safe access to the emergency and mustering stations.
6. No stairs in living quarters shall be angled more than 45°, measured from the horizontal plane, and the steps shall be equidistant. The stairs shall have a serviceable internal width between winders, though not less than 800 mm. Stairs shall be provided with banisters or handrails on both sides. Stairs of a width exceeding 1 600 mm, shall also have a handrail in the middle.
7. Corridors shall be provided with at least one handrail. Corridors of more than 1 600 mm in width and in other larger openings adjacent to corridors shall have handrails on both sides.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017), 19 December 2017 No. 2322 (in force on 1 January 2018).

Section 9

Ventilation

1. The living quarters shall be adequately ventilated by mechanical ventilation means and be overpressured with 50 Pascal compared with the surroundings. The ventilation system with air intakes shall be so located and constructed that fire-hazardous, noxious or unwholesome gases, dust, etc. are prevented from penetrating into the living quarters.
2. It shall be possible to regulate the ventilation system so that it ensures a comfortable temperature and sufficient circulation of air without draft under the climatic conditions under which the unit is specified to operate. The relative humidity shall not be below 30% or above 70%.
3. Air vents from health offices, galleys, laundries and lavatories shall be led in special ducts and never be recirculated.
4. The ventilation system shall have such capacity that every room in the living quarters will be supplied with at least 30 m³ fresh air per person per hour. The number of air changes per hour shall be as follows in the rooms mentioned below:
Radio room: 10
Mess rooms and day rooms: 6
Dry stores rooms: 10
Galleys: 20 for supply and 30 for suction
5. Injection of fresh and/or heated /cooled air to lavatories may only be permitted where the lavatories have a door to an open deck or mechanical venting.
6. On units with unrestricted trade area, day rooms shall be equipped with air conditioning systems which shall be dimensioned at least in accordance with the fresh air quantity specified under subsection 4 above.
 - 6.1. At an outdoor temperature of plus 35°C and a relative humidity of approx. 70%, it shall be possible to obtain an indoor temperature of plus 29°, and a relative humidity of 50 %. Return air shall not exceed 50%.
 - 6.2. The cooling engines and air coolers of the system shall moreover be so adjusted that at an outdoor temperature of plus 28°C and approx. 80% relative humidity, it shall be possible to obtain an indoor temperature of plus 24°, and a relative humidity of approx. 50%.
7. The spare parts necessary to ensure continuous operation of the ventilation system shall be on board.

Amended by Regulation of 11 April 2003 No. 495 (in force on 1 July 2003).

Section 10

Heating

1. The living quarters shall have a heating system which is dimensioned for a minimum temperature of plus 20°C under the climatic conditions under which the unit is specified to be able to operate. The temperature difference in each individual room shall not exceed 5°C. Store-rooms, service spaces, washing and drying rooms for clothes, provision rooms and freezer rooms and cold storage are exempt from this requirement.
2. Heating fixtures shall be securely mounted and screened so that risk of fire or other inconveniences for those on board is avoided.
3. It shall be possible to adjust the temperature independently in each individual cabin in a satisfactory manner.

Amended by Regulation of 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 11

Lighting

1. Health offices, mess rooms, day rooms and galleys shall as far as possible be lighted by natural light.
2. Artificial lighting shall satisfy the requirements mentioned below.
 - 2.1. The average artificial lighting in each living room shall be at least 100 lux. In cabins and day rooms, ceiling lamps, wall lamps and table lamps facilitating varied lighting shall be provided. There shall be a reading lamp at every berth.
 - 2.2. On writing desks: At least 300 lux.
 - 2.3. Galleys: At least 300 lux on working levels 1 m above the floor.
 - 2.4. Bath rooms and toilet rooms: At least 150 lux.
 - 2.5. Corridors: At least 50 lux. Near deck exits, it shall in a transition zone be possible to vary the corridor lighting between daylight: 100 lux, and night light: 20 lux.
 - 2.6. Stairways: At least 100 lux. The light sources shall be so arranged that shadows in the staircase steps are avoided.
3. For measurement of average lighting in a room, all electric light sources normally in use shall be turned on. When the light measurements are performed, all day light shall be blinded off. Five measurements shall be made (one measurement in the middle of the room and one measurement in each of the corners of the room). The measurements shall be made 1 m above the floor.

Amended by Regulation of 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 12

Galley and provision room

1. Living quarters shall include galley, freezer room and cold storage room. Bulkheads and ceilings in the galley, freezer room and cold storage room shall be of stainless steel. To the extent possible, pipe systems, ducts, cables, etc. shall be concealed and such that the surfaces are even and easy to clean.
2. The floor of the galley shall have a no-skid surface which is easy to keep clean. The floor-wall junction shall be so designed as to make it easy to keep clean. The floor shall be provided with a sufficient number of water drains, at least one on each side at the lowest point in all normal heel conditions.
3. The floor area of the galley shall not be less than 35 m².
4. Special rooms for storage of provision shall be arranged. The storage rooms shall be located as close to the galley as possible.
5. The provision rooms shall be located, designed and furnished in such a way that orderly storage is facilitated and that provisions will avoid deterioration for reasons such as intense heat, draft and condensation or because of damage and contamination caused by vermin.
6. The freezer room shall be sufficiently large to hold the supply of foods that should be kept frozen. The freezer room shall be equipped with a thermometer which can be checked from outside the room. The temperature of the freezer room shall be minus 18°C or lower.
7. The cold storage room shall be sufficiently large to hold the supply of foods that should be kept cooled. The temperature of the cold storage room shall be kept between minus 1°C and plus 4°C.
8. It shall be possible to open the doors of refrigerated rooms and cold storage rooms from the inside even if the door is locked from the outside. There shall be an alarm system from refrigerated rooms and cold storage rooms to the galley.
9. It shall be possible to drain the refrigerated rooms and the cold storage rooms.
10. Galleys shall be equipped with facilities for handwashing with mixing batteries which can be operated without using the hands.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 13

Cabins

1. A separate berth shall be provided for each person living on the unit.
2. Cabins shall be furnished for not more than 2 persons.
3. Cabins for one person, including bathroom, shall have a floor area of at least 7 m².
4. Cabins for two persons, including bathroom, shall have a floor area of at least 12 m².
5. Cabins for two persons, without separate sleeping rooms, may only be used by persons with opposite working hours.
6. When the floor area is measured, the part of the surface which is occupied by berths, lockers, chests of drawers and seating shall be included, except small or irregularly shaped spaces not available for free movement.
7. There shall be no direct openings into cabins from day rooms, mess rooms, galleys, washing and drying rooms for clothes or changing rooms.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 14

Furnishing in sleeping rooms

Each sleeping room shall be furnished with:

- a) one berth which is at least 2 m by 0.8 m, both inside measurements;
- b) one of more clothes lockers and drawers with a total volume of at least 500 litres. At least one clothes locker and one drawer shall be lockable;
- c) table and seating. For cabins with separate sleeping rooms or rooms and a floor area larger than the minimum requirements of section 13 items 3 and 4 the table and seating may instead be placed outside the sleeping room.

Amended by Regulation of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 15

Mess rooms, day rooms and office rooms

1. The mess rooms shall be sufficiently large to serve at least 50 per cent of the total crew at the same time. The floor in the mess room shall be at least 1.2 m² per person the room is intended for.
2. Mess rooms shall be furnished with several tables.
Each person at the table shall have an area at least 600 mm in width and 400 mm in depth. Tables and chairs shall be placed in such a way that the access to the tables is as free as possible. Chairs shall be equipped with back rests.
3. There shall be separate day rooms for smokers and non-smokers.
4. The floor area of all day rooms shall in total be equal to at least 1 m² per person of the maximum number of persons that may be on board.
5. As a general rule, the offshore installation manager, the stability section leader, the technical section leader, the drilling manager and the catering manager shall each have a separate room furnished for use as an office. In case it is desired to use a joint office, this must be of a size and be so furnished that the requirement for separate sections can be complied with to the extent possible.
6. On board, there shall be a separate room with appliances for hot and cold drinks. The room shall be located in such a way that it has direct entrance from deck. The room shall be equipped with a wash basin or facilities for hand washing, and shall be heated. The furnishing shall be suitable for out-door working personnel. The floor shall have sufficient drainholes.
7. Furniture, including chairs, in film rooms and day rooms shall be securely fastened. If chairs in mess rooms are not fastened to the floor, there shall be a device in front of the exit doors preventing these from being blocked in case of listing.

Amended by Regulation of 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 16

Health office

1. Living quarters shall have a health office which is located in such a way that stretcher transportation between the work areas, helicopter deck and health office may be conducted in a medically safe way.
2. The health office shall be so furnished and equipped that all medical examination and treatment may be carried out in a medically safe way.
3. A sanitary room with toilet, shower and washbasin shall be provided adjacent to the health office.
4. It shall be possible to adjust the temperature in the health office independently from the other rooms in the living quarters.
5. The health office shall have communication equipment for internal and external communication.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 17

Sanitary rooms, changing rooms, etc.

1. Adjacent to every cabin there shall be a sanitary room equipped with a water closet, shower and wash basin with hot and cold water. The sanitary room shall be equipped with a mirror and a cupboard for toiletries.
2. If there is a sauna on board, the door to this shall open outwards. The sauna shall be equipped with an alarm connected to an alarm bell in the corridor outside and in the control room.
3. In sanitary rooms intended for more than one person, and in changing rooms, the shower shall be screened. For each shower, there shall be a separate water drain.
4. Located close to the galley, there shall be a separate toilet with hand washing facilities for galley personnel.
5. There shall be at least one WC on the work deck and one near control rooms.
6. If there are more than one WC in a room, or WC in common washing rooms and bathrooms, each WC shall be in a separate enclosure equipped with a lockable door.
7. All doors to sanitary rooms shall be lockable.

8. At the entrance to the living quarters, there shall be separate changing rooms equipped with:
 - a) individual clothes lockers;
 - b) an arrangement for drying working clothes and footwear.
9. Adjacent to the changing room, there shall be wash basins, showers, water closets and urinals in such number as is deemed to be reasonable considering the number of people assumed to be using the room at the same time. If several smaller changing rooms are arranged, such rooms shall be provided with at least one wash basin, one shower and one water closet.
10. Joint WCs, washing rooms, changing rooms and shower rooms shall be conveniently located in relation to work areas and mess rooms.
11. There shall be a broom closet with a utility sink on each deck in the living quarters. The floor shall have drains for water.
12. Storage rooms for linen shall be located on each deck where there are cabins.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 18

Rooms for washing and drying clothes

There shall be facilities for washing and drying clothes to the extent necessary. The washing of working clothes shall take place in a separate washing machine. Washing rooms shall be so arranged that working clothes and private clothes are not mixed. The floor shall have at least one drain hole in each corner.

Chapter III Miscellaneous provisions

Section 19

Exemptions

1. The Norwegian Maritime Authority may exempt a mobile offshore unit from one or more of the requirements of the Regulations if the company applies for an exemption in writing and one of the following requirements is met:
 - a) it is established that the requirement is not essential and that the exemption is justifiable in terms of safety;
 - b) it is established that compensating measures will maintain the same level of safety as required by these Regulations;
 - c) it is established that the requirement hinders the development and use of innovative solutions when such solutions will maintain the same level of safety as required by these Regulations.
2. Statement from safety representative shall be attached to the application for exemption.

Amended by Regulations of 11 April 2003 No. 495 (in force on 1 July 2003), 20 December 2016 No. 1776 (in force on 1 January 2017).

Section 20

Entry into force

1. These Regulations enter into force on 2 February 1987. For units the construction of which was started prior to 1 March 1982, the requirements of section 7 items 7, 8 and 9 do not apply.
2. As from the same date, Regulations of 13 January 1986 on the construction and equipment of living quarters on drilling units and other mobile offshore units are repealed.

Amended by Regulation of 29 June 2007 No. 1006 (in force on 1 July 2007, previously section 21).