STATUTORY INSTRUMENTS

1998 No. 2514

The Merchant Shipping (Passenger Ship Construction: Ships of Classes I, II and II(A)) Regulations 1998

PART V

STABILITY AND SHIPSIDE MARKINGS

Intact stability standard

37. Every ship shall, in all probable loading conditions, satisfy the stability criteria set out in Schedule 1 in Merchant Shipping Notice MSN 1698(M).

Commencement Information

II Reg. 37 in force at 12.11.1998, see reg. 1(1)

Inclining, lightweight survey and stability information

- **38.**—(1) Every ship on her completion shall be inclined and the elements of her stability determined. The master shall be supplied by the owner with approved information relating to the stability of the ship in accordance with the provisions of this regulation.
 - (i) Every ship shall have a lightweight survey carried out within each period of five years to verify any changes in lightship displacement and longitudinal centre of gravity. Such periods shall commence on the date of issue of a Passenger Ship Safety Certificate or Passenger Certificate or from a previous inclining or lightweight survey, whichever date is the earliest.
 - (ii) The ship shall be re-inclined whenever, in comparison with the ship's approved stability information derived from the previous inclining experiment, a deviation from the lightship displacement exceeding 2 per cent or a deviation of the longitudinal centre of gravity exceeding 1 per cent of the ship's length is found or anticipated.
- (iii) Every inclining or lightweight survey made for the purpose of this paragraph shall be carried out in the presence of a nominated surveyor.
- (iv) The interval between lightweight surveys of any such ship may be extended for a period of not more than one year if, on the production of relevant information about the ship, it can be shown that the lightweight survey is not necessary at the required interval.
- (3) An approved report of each inclining or lightweight survey carried out in accordance with paragraph (2) and of the calculation therefrom of the lightship condition shall be placed on board for the use of the master.
- (4) Where elements of a ship's stability have been found to have changed following any inclining or lightweight survey carried out in accordance with the requirements of paragraph (2) the master shall be supplied with amended approved stability information.

(5) Where any alterations are made to a ship so as materially to affect the stability information supplied to the master, amended stability information shall be provided, and the ship shall be reinclined.

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Commencement Information
12 Reg. 38 in force at 12.11.1998, see reg. 1(1)
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Subdivision lines

39. Every ship shall be marked on its side amidships with the subdivision load lines assigned to it in accordance with Schedule 5 in Merchant Shipping Notice MSN 1698 (M).

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Commencement Information

13 Reg. 39 in force at 12.11.1998, see reg. 1(1)
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Draughts marks

40. Every ship shall have scales of draughts marked clearly at the bow and stern.

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Commencement Information
14 Reg. 40 in force at 12.11.1998, see reg. 1(1)
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Automatic draught gauge system

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41.—<sup>F1</sup>(1)
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- (a) (2) (a) Every ship of Class F2... II(A) engaged on services which afford only short periods in port or where insufficient lighting is available during periods of darkness, or which include the use of berths exposed to adverse weather, shall be provided with a reliable automatic draught gauge system as prescribed in paragraph (1).
- (b) Every other ship of Class ^{F2}... II(A) shall be provided with such an automatic draught gauge system, except where the draught marks are located where they can be easily read.

Textual Amendments

- F1 Reg. 41(1) omitted (29.3.2023) by virtue of The Merchant Shipping (Cargo and Passenger Ship Construction and Miscellaneous Amendments) Regulations 2023 (S.I. 2023/246), reg. 1(1), Sch. para. 8(a)
- **F2** Words in reg. 41(2) omitted (29.3.2023) by virtue of The Merchant Shipping (Cargo and Passenger Ship Construction and Miscellaneous Amendments) Regulations 2023 (S.I. 2023/246), reg. 1(1), **Sch. para. 8(b)**

Commencement Information

I5 Reg. 41 in force at 12.11.1998, see **reg. 1(1)**

Recording of draught, trim and freeboard prior to departure

- **42.**—(1) On completion of loading of the ship and before it proceeds on a voyage, the master or an officer appointed for the purpose by the master shall ascertain—
 - (a) the ship's draught at the bow and at the stern;
 - (b) the trim of the ship by the bow or the stern; and
 - (c) the vertical distance from the waterline to the appropriate subdivision load line mark on each side of the ship.
- (2) The draughts, trim and the vertical distances ascertained in accordance with paragraph (1) shall be recorded by the master or such officer as the case may be in the official log book.

Commencement Information 16 Reg. 42 in force at 12.11.1998, see reg. 1(1)

Calculation of stability prior to departure

43.—(1) On completion of the loading of the ship and prior to its departure, the master shall determine the ship's trim and stability and also ascertain and record that the ship is [F3 is in compliance with the requirements of such of regulations 37, 42, 44 to 46 (inclusive) and this regulation as are applicable to that ship]. The determination of the ship's stability shall always be made by calculation. Use of an electronic loading and stability computer or equivalent means may be accepted for this purpose.

$F^{4}(2)$																

(3) Where the calculation is made by means of a shore-based loading and stability computer system, a print-out of the calculation shall be presented to the master before the ship proceeds on its voyage. It shall be the duty of the person responsible for that system to ensure that the calculations are substantially correct.

Textual Amendments

- Words in reg. 43(1) substituted (11.6.2001) by The Merchant Shipping (Miscellaneous Amendments) Regulations 2001 (S.I. 2001/1638), regs. 1, **5(f)**
- Reg. 43(2) omitted (29.3.2023) by virtue of The Merchant Shipping (Cargo and Passenger Ship
 Construction and Miscellaneous Amendments) Regulations 2023 (S.I. 2023/246), reg. 1(1), Sch. para.
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Commencement Information

I7 Reg. 43 in force at 12.11.1998, see reg. 1(1)

Stability in the damaged condition Requirements for ships constructed before 29 April 1990

(a) 44. (1) (a) Subject to [F5the Merchant Shipping (Ro-Ro Passenger Ships) (Stability) Regulations 2004] and regulation 45(2), in addition to the requirements of regulation 37, every ship shall be so constructed as to provide sufficient intact stability in all service conditions to enable the ship to withstand the flooding of any one of the main compartments into which the ship is subdivided in accordance with the provisions of regulation 8. If two of the main compartments, being adjacent to each other, are separated by a bulkhead which is stepped under the conditions of paragraph 6(3)(a) of Schedule 2

- in Merchant Shipping Notice MSN 1698 (M) the intact stability shall be adequate to withstand the flooding of those two adjacent main compartments.
- (b) Where in any ship the factor of subdivision required under paragraph 4 or 9 of Schedule 2 in Merchant Shipping Notice MSN 1698 (M) is 0.50 or less but more than 0.33, the intact stability shall be adequate to withstand the flooding of any two adjacent main compartments.
- (c) Where in any ship the factor of subdivision required under paragraph 4 of Schedule 2 in Merchant Shipping Notice MSN 1698 (M) is 0.33 or less, the intact stability shall be adequate to withstand the flooding of any three adjacent main compartments.
- (a) (2) (a) For the purposes of this regulation the sufficiency of the intact stability of every ship shall be determined in accordance with the provisions of Sections 1 and 2 of Schedule 3 in Merchant Shipping Notice MSN 1698 (M) except that for ro-ro passenger ships the sufficiency of intact stability shall be determined in accordance with sections 1 and 3 of Schedule 2 in Merchant Shipping Notice MSN 1698 (M) not later than the first periodic survey after the date of compliance prescribed below, according to the value of A/Amax as calculated in accordance with MSC/Circ.574.

Value of A/Amax	Date of Compliance
Less than 85%	1 October 1998
85% or more but less than 90%	1 October 2000
90% or more but less than 95%	1 October 2002
95% or more but less than 97.5%	1 October 2004
97.5% or more	1 October 2005

- (b) The intact stability of every United Kingdom ro-ro passenger ship shall be examined in accordance with the appropriate sections of Schedule 3 of Merchant Shipping Notice MSN 1698 (M) in order to establish the sufficiency of positive stability provided as required by subparagraphs (1)(a) and (2)(a) whenever considered necessary in connection with amended stability information prepared in accordance with regulation 38(4) and (5). Such re-examinations shall demonstrate that at all stages of flooding there is sufficient positive residual stability after the assumed damage prescribed in section 1 of Schedule 3 in Merchant Shipping Notice MSN 1698 (M).
- (a) (3) (a) Every ship shall be constructed as to keep asymmetrical flooding, when the ship is in a damaged condition, at the minimum consistent with efficient arrangements. If cross-flooding fittings are provided in any such ship the fittings shall, where practicable, be self-acting but in any case where controls to cross-flooding fittings are provided, they shall be capable of being operated from above the bulkhead deck. The cross-flooding fittings shall be capable of reducing the heel within 15 minutes, sufficiently to meet the requirements of subparagraph 2(2)(c) of Schedule 3 in Merchant Shipping Notice MSN 1698 (M).
- (b) If the margin line may become submerged during the flooding assumed for the purposes of the calculation referred to in Schedule 3 in Merchant Shipping Notice MSN 1698 (M), the construction of the ship shall be such as will enable the master of the ship to ensure—
 - (i) that the maximum angle of heel after flooding but before equalisation shall not exceed 15 degrees; and
 - (ii) that the margin line shall not be submerged in the final stage of flooding.
- (a) (4) (a) There shall be provided by the owner in every ship a document for the use of the master of the ship containing—
 - (i) information as to the use of any cross-flooding fittings provided in the ship;

- (ii) information necessary for the maintenance of sufficient intact stability under service conditions to enable the ship to withstand damage to the extent referred to in section 1 of Schedule 3 in Merchant Shipping Notice MSN 1698 (M); and
- (iii) information as to the condition of stability on which the calculations of heel have been based, together with a warning that excessive heeling might result should the ship sustain damage when in a less favourable condition.
- (b) This additional information shall be included in the stability information book.

Textual Amendments

Words in reg. 44(1)(a) substituted (29.11.2004) by The Merchant Shipping (Ro-Ro Passenger Ships) (Stability) Regulations 2004 (S.I. 2004/2884), regs. 1, 11(2)

Commencement Information

I8 Reg. 44 in force at 12.11.1998, see **reg. 1(1)**

Stability in the damaged condition Requirements for ships constructed on or after 29th April 1990

- **45.**—(1) Subject to paragraph (2) every ship shall comply with the provisions of regulation 44 except that—
 - (a) for the purpose of regulation 44(2) the sufficiency of intact stability required shall be calculated in accordance with Section 1 and 3 of Schedule 3 in Merchant Shipping Notice MSN 1698 (M); and
 - (b) the cross-flooding fittings shall be capable of meeting the requirements of paragraph 3(2) (b) of Schedule 3 in Merchant Shipping Notice MSN 1698 (M).
- (2) This regulation shall not apply to ships which comply with those provisions of IMO Resolution A.265(VIII) as detailed in regulation 6.

Commencement Information

I9 Reg. 45 in force at 12.11.1998, see **reg. 1(1)**

Requirements for ro-ro passenger ships which carry 400 persons or more

- **46.** In addition to the provisions of regulations 44 and 45, ro-ro passenger ships certificated to carry 400 persons or more shall comply with the following—
- (1) Vessels constructed on or after 1st July 1997 shall comply with section 3 of Schedule 3 of Merchant Shipping Notice MSN 1698 (M) with the damage deemed to occur anywhere in the ship's length.
- (2) Vessels constructed before 1st July 1997 shall comply with the requirements of paragraph (1) not later than the date of the first periodic survey following the compliance dates prescribed in subparagraphs (a), (b) and (c) below, whichever occurs latest—

Value of A/Amax	Date of Compliance	
less than 85%	1 October 1998	
85% or more but less than 90%	1 October 2000	
90% or more but less than 95%	1 October 2002	

Value of A/Amax	Date of Compliance							
95% or more but less than 97.5%	1 October 2004							
97.5% or more	1 October 2010							
(b) Number of persons permitted to be car	ried							
1,500 or more	1 October 2002							
1,000 or more but less than 1,500	1 October 2006							
600 or more but less than 1,000	1 October 2008							
400 or more but less than 600	1 October 2010							
Age of ship equal to or greater than 20 years	20 years after the construction of the ship							

where age of the ship means the time from the date on which it was constructed.

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Commencement Information
I10 Reg. 46 in force at 12.11.1998, see reg. 1(1)
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Exhibition of damage control plans

47. There shall be permanently exhibited in the ship, for the information of the officer in charge of the ship, plans showing clearly for each level the boundaries of the watertight compartments, the openings therein, the means of closing such openings and the position of the controls and the arrangements for the correction of any list due to flooding. In addition, booklets containing such information shall be made available by the owner for the use of the officers of the ship.

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Commencement Information
III Reg. 47 in force at 12.11.1998, see reg. 1(1)
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Changes to legislation:
There are currently no known outstanding effects for the The Merchant Shipping (Passenger Ship Construction: Ships of Classes I, II and II(A)) Regulations 1998, PART V.