

Directive 2003/25/EC of the European Parliament and of the Council of 14 April 2003 on specific stability requirements for ro-ro passenger ships (Text with EEA relevance)

Article 1	Purpose
Article 2	Definitions
Article 3	Scope
Article 4	Significant wave heights
Article 5	Sea areas
Article 6	Specific stability requirements
Article 7	Introduction of the specific stability requirements
Article 8	Certificates
Article 9	Seasonal and short-time period operations
Article 10	Amendment of Annexes
Article 10a	Exercise of the delegation
Article 11	Committee procedure
Article 12	Penalties
Article 13	Implementation
Article 14	Entry into force
Article 15	Addressees

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ANNEX I

SPECIFIC STABILITY REQUIREMENTS FOR RO-RO PASSENGER SHIPS

1. In addition to the requirements of Regulation II-1/B/8 of the...
  - 1.1. The provisions of Regulation II-1/B/8.2.3 shall be complied with when...
  - 1.2. When a high-efficiency drainage system is installed, the administration of...
  - 1.3. For ships in geographically defined restricted areas of operation, the...
  - 1.4. As an alternative to the requirements of paragraph 1.1 or...
  - 1.5. reference to acceptance of the results of the model test...
  - 1.6. the information supplied to the master in accordance with Regulations...
2. For assessing the effect of the volume of the assumed...
  - 2.1. a transverse or longitudinal bulkhead shall be considered intact if...
  - 2.2. in cases where the ship's hull is structurally partly widened...
  - 2.3. the tightness of transverse or longitudinal bulkheads which are taken...
  - 2.4. for special arrangements such as, e.g., full-width hanging decks and...
  - 2.5. the effect of the volume of the assumed accumulated sea...
  - 2.6. When a bulkhead above the ro-ro deck is assumed damaged,...
3. When determining significant wave height, the wave heights given on...
  - 3.1. For ships which are to be operated only for a...
4. Model tests shall be conducted in accordance with the Appendix....

## Appendix

### Model test method

1. Objectives
2. Definitions
3. Ship model
  - 3.1. The model should copy the actual ship for both outer...
    - 3.1.1.  $\pm 35\%$  L BP from midship;
    - 3.1.2. an additional test will be required for the worst damage...
  - 3.2. The model should comply with the following:
    - 3.2.1. length between perpendiculars (L BP ) is to be at...
    - 3.2.2. hull thickness of flooded spaces should not exceed 4 mm;
    - 3.2.3. in both intact and damaged conditions, the model should satisfy...
    - 3.2.4. all damaged compartments and ro-ro spaces should be modelled with...
    - 3.2.5. the characteristics of motion of the actual ship should be...
    - 3.2.6. main design features such as watertight bulkheads, air escapes, etc.,...
    - 3.2.7. the shape of the damage opening should be as follows:...
  - 3.3. The model in the flooded equilibrium condition should be heeled...
4. Procedure for experiments
  - 4.1. The model should be tested in a long-crested irregular seaway...
    - 4.1.1. the basin width should be sufficient to avoid contact or...
    - 4.1.2. the basin depth should be sufficient for proper wave modelling...
    - 4.1.3. for a representative wave realisation to be used, measurements should...
    - 4.1.4. the wave probe closer to the wave maker should be...
    - 4.1.5. variation in H S and T P should be within...
    - 4.1.6. during the tests, for approval purposes, a tolerance of  $+2,5\%$ ...
  - 4.2. The model should be free to drift and placed in...
    - 4.2.1. heading control lines, intended for minor adjustment, should be located...
    - 4.2.2. the carriage speed should be equal to the actual drift...
  - 4.3. At least 10 experiments should be carried out. The test...
5. Survival criteria
6. Test documentation
  - 6.1. The model test programme should be approved by the Administration...
  - 6.2. Tests should be documented by means of a report and...

## ANNEX II

### INDICATIVE GUIDELINES TO NATIONAL ADMINISTRATIONS

#### PART I

#### APPLICATION

Paragraph 1

Paragraph 1.1

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1. This paragraph addresses the application of a hypothetical amount of...
2. The accumulated water is added as a liquid load with...
3. If  $f_r$  is 2,0 m or more, no water is assumed...

#### Paragraph 1.2

#### Paragraph 1.3

1. The amount of assumed accumulated water on deck may, in...
2. If the significant wave height ( $h_s$ ), in the area concerned,...
3. The height  $h_w$  is kept constant, therefore the amount of...
4. If the calculations to demonstrate compliance with this Directive relate...

#### Paragraphs 1.4 and 1.5

#### Paragraph 1.6

#### Paragraph 2.1

#### Paragraph 2.2

#### Paragraph 2.3

1. Transverse or longitudinal bulkheads/barriers which are fitted and taken into...
2. The height ( $B_h$ ) of transverse and longitudinal bulkheads/barriers shall be...

#### Paragraph 2.5.1

#### Paragraph 2.5.2

#### Paragraph 2.5.3

#### Paragraph 2.6

1. The statutory extent of damage is to be applied along...
2. All transverse and longitudinal bulkheads/barriers which constrain the assumed accumulated...
3. In those cases where the transverse bulkhead/barrier is damaged the...

## PART II

### MODEL TESTING

#### Paragraph 3 — Ship model

- 3.1. The material of which the model is made is not...
- 3.2. Model particulars
  - 3.2.1. In recognising that scale effects play an important role in...
  - 3.2.2. The model in way of the assumed damages must be...
  - 3.2.3. It is important that not only the draughts in the...
  - 3.2.4. After measuring the damaged draughts it may be found necessary...
  - 3.2.5. In order to ensure that the model motion characteristics represent...
  - 3.2.6. It is assumed that the ventilators of the damage compartment...
  - 3.2.7. It is deemed appropriate to consider a damage shape representative...
- 3.3. In the original model test method of resolution 14 of...
- 3.4. In cases where there is a margin in GM in...

#### Paragraph 4 — Procedure for experiments

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- 4.1. Wave spectra
- 4.2. To avoid interference of the mooring system with the ship...
- 4.3. A sufficient number of tests in different wave trains is...

Paragraph 5 — Survival criteria

Paragraph 6 — Test approval

Note:

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- (1) [OJ C 20 E, 28.1.2003, p. 21.](#)
- (2) Opinion delivered on 11 December 2002 (not yet published in the Official Journal).
- (3) Opinion of the European Parliament of 7 November 2002 (not yet published in the Official Journal), and Council Decision of 17 March 2003.
- (4) [OJ L 144, 15.5.1998, p. 1;](#) Directive as last amended by Directive 2002/84/EC of the European Parliament and of the Council ([OJ L 324, 29.11.2002, p. 53](#)).
- (5) [OJ C 178, 22.6.2001, p. 288.](#)
- (6) [OJ L 138, 1.6.1999, p. 1.](#) Directive as amended by Directive 2002/84/EC of the European Parliament and of the Council.
- (7) [OJ L 184, 17.7.1999, p. 23.](#)