

## 24 Navigation Safety Regulations

### Pilot Transfer Equipment and Arrangements

74. (1) Every ship engaged on a voyage in the course of which a pilot is likely to be employed shall be provided with pilot transfer equipment and arrangements in accordance with Regulation 23 of Chapter V of the Safety Convention.
- (2) Pilot transfer equipment and arrangements with which a ship is provided shall meet the requirements of the annex to IMO Resolution A1045(27) as amended time to time, *Pilot Transfer Arrangements*.
- (3) Despite subsection (1), in the case of a Canadian ship in the waters of the Great Lakes or St. Lawrence River, if the distance from the water to the point of access of the ship is more than five metres, the ship shall provide an accommodation ladder, or other equipment that provides equally safe and convenient access to and egress from the ship, so that the climb on the pilot ladder does not exceed five metres.

### SOLAS – Chapter V

#### *REGULATION 23, Pilot transfer arrangements*

#### 1 Application

- 1.1 Ships engaged on voyages in the course of which pilots are likely to be employed shall be provided with pilot transfer arrangements.
- 1.2 Equipment and arrangements for pilot transfer which are installed<sup>1</sup> on or after 1 July 2012 shall comply with the requirements of this regulation, and due regard shall be paid to the standards adopted by the Organization<sup>2</sup>.
- 1.3 Except as provided otherwise, equipment and arrangements for pilot transfer which are provided on ships before 1 July 2012 shall at least comply with the requirements of regulation 17<sup>3</sup> or 23, as applicable, of the Convention in force prior to that date, and due regard shall be paid to the standards adopted by the Organization prior to that date.
- 1.4 Equipment and arrangements installed on or after 1 July 2012, which are a replacement of equipment and arrangements provided on ships before 1 July 2012, shall, in so far as is reasonable and practicable, comply with the requirements of this regulation.
- 1.5 With respect to ships constructed before 1 January 1994, paragraph 5 shall apply not later than the first survey<sup>4</sup> on or after 1 July 2012.
- 1.6 Paragraph 6 applies to all ships.

#### 2 General

- 2.1 All arrangements used for pilot transfer shall efficiently fulfil their purpose of enabling pilots to embark and disembark safely. The appliances shall be kept clean, properly maintained and stowed and shall be regularly inspected to ensure that they are safe to use. They shall be used solely for the embarkation and disembarkation of personnel.
- 2.2 The rigging of the pilot transfer arrangements and the embarkation of a pilot shall be supervised by a responsible officer having means of communication with the navigation bridge who shall also arrange for the escort of the pilot by a safe route to and from the navigation bridge. Personnel engaged in rigging and operating any mechanical equipment shall be instructed in the safe procedures to be adopted and the equipment shall be tested prior to use.

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1 Refer to the Unified interpretation of SOLAS regulation V/23 (MSC.1/Circ.1375).

2 Refer to the Pilot transfer arrangements (resolution,1045(27)).

3 Refer to resolution MSC.99(73), renumbering previous regulation 17 as regulation 23, which entered into force on 1 July 2002.

4 Refer to the Unified interpretation of the term "first survey" referred to in SOLAS regulations (MSC.1/Circ.1290).

- 2.3 A pilot ladder shall be certified by the manufacturer as complying with this regulation or with an international standard acceptable to the Organization<sup>5</sup>. Ladders shall be inspected in accordance with regulations 1/6, 7 and 8.
- 2.4 All pilot ladders used for pilot transfer shall be clearly identified with tags or other permanent marking so as to enable identification of each appliance for the purposes of survey, inspection and record keeping. A record shall be kept on the ship as to the date the identified ladder is placed into service and any repairs effected.
- 2.5 Reference in this regulation to an accommodation ladder includes a sloping ladder used as part of the pilot transfer arrangements.

### 3 Transfer arrangements

- 3.1 Arrangements shall be provided to enable the pilot to embark and disembark safely on either side of the ship.
- 3.2 In all ships where the distance from sea level to the point of access to, or egress from, the ship exceeds 9 m, and when it is intended to embark and disembark pilots by means of the accommodation ladder<sup>6</sup>, or other equally safe and convenient means in conjunction with a pilot ladder, the ship shall carry such equipment on each side, unless the equipment is capable of being transferred for use on either side.
- 3.3 Safe and convenient access to, and egress from, the ship shall be provided by either:
  - .1 a pilot ladder requiring a climb of not less than 1.5 m and not more than 9 m above the surface of the water so positioned and secured that:
    - .1.1 it is clear of any possible discharges from the ship;
    - .1.2 it is within the parallel body length of the ship and, as far as is practicable, within the mid-ship half length of the ship;
    - .1.3 each step rests firmly against the ship's side; where constructional features, such as rubbing bands, would prevent the implementation of this provision, special arrangements shall, to the satisfaction of the Administration, be made to ensure that persons are able to embark and disembark safely;
    - .1.4 the single length of pilot ladder is capable of reaching the water from the point of access to, or egress from, the ship and due allowance is made for all conditions of loading and trim of the ship, and for an adverse list of 15°; the securing strongpoints, shackles and securing ropes shall be at least as strong as the side ropes; or
  - .2 an accommodation ladder in conjunction with the pilot ladder (i.e. a combination arrangement), or other equally safe and convenient means, whenever the distance from the surface of the water to the point of access to the ship is more than 9 m. The accommodation ladder shall be sited leading aft. When in use, means shall be provided to secure the lower platform of the accommodation ladder to the ship's side, so as to ensure that the lower end of the accommodation ladder and the lower platform are held firmly against the ship's side within the parallel body length of the ship and, as far as is practicable, within the mid-ship half length and clear of all discharges;
    - .2.1 when a combination arrangement is used for pilot access, means shall be provided to secure the pilot ladder and manropes to the ship's side at a point of nominally 1.5 m above the bottom platform of the accommodation ladder. In the case of a combination arrangement using an accommodation ladder with a trapdoor in the bottom platform (i.e. embarkation platform), the pilot ladder and man ropes shall be rigged through the trapdoor extending above the platform to the height of the handrail.

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5 Refer to the recommendations by the International Organization for Standardization, in particular publication ISO 799:2004, *Ships and marine technology – Pilot ladders*.

6 Refer to regulation II-1/3-9 on Means of embarkation on and disembarkation from ships, adopted by resolution MSC.256 (84), together with the associated Guidelines (MSC.1/Circ.1331).

**4 Access to the ship's deck**

Means shall be provided to ensure safe, convenient and unobstructed passage for any person embarking on, or disembarking from, the ship between the head of the pilot ladder, or of any accommodation ladder or other appliance, and the ship's deck. Where such passage is by means of:

- .1 a gateway in the rails of bulwark, adequate handholds shall be provided;
- .2 a bulwark ladder, two handhold stanchions rigidly secured to the ship's structure at or near their bases and at higher points shall be fitted. The bulwark ladder shall be securely attached to the ship to prevent overturning.

**5 Shipline doors**

Shipline doors used for pilot transfer shall not open outwards.

**6 Mechanical pilot hoists**

Mechanical pilot hoists shall not be used

**7 Associated equipment**

7.1 The following associated equipment shall be kept at hand ready for immediate use when persons are being transferred:

- .1 two man-ropes of not less than 28 mm and not more than 32 mm in diameter properly secured to the ship if required by the pilot; man-ropes shall be fixed at the rope end to the ring plate fixed on deck and shall be ready for use when the pilot disembarks, or upon request from a pilot approaching to board (the manropes shall reach the height of the stanchions or bulwarks at the point of access to the deck before terminating at the ring plate on deck);
- .2 a lifebuoy equipped with a self-igniting light;
- .3 a heaving line.

7.2 When required by paragraph 4 above, stanchions and bulwark ladders shall be provided.

**8 Lighting**



Adequate lighting shall be provided to illuminate the transfer arrangements overside, and the position on deck where a person embarks or disembarks.

Authority: Transport Canada

**REQUIRED BOARDING ARRANGEMENTS FOR PILOT**

In accordance with SOLAS Regulation V/23 & IMO Resolution A.1045(27)  
**INTERNATIONAL MARITIME PILOTS' ASSOCIATION**

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 This document and all IMO Pilot-related documents are available for download at: <http://www.imphaq.org>

**A PILOT LADDER WINCH REEL**

Hookball  
Min. 270kg  
Max. 300kg

Minimum  
Clear height  
2.10m

NO  
OBSTRUCTIONS  
Min. 1.15m

**B**

Minimum  
Clearance  
2.10m

Handholds  
Min. 20mm  
Max. 300mm

Minimum  
30 x 50mm

All pilot ladders must not obstruct these areas of penetration from being unobstructed wherever the ladder and access to the ladder.

Power switches must have an operative safety device to lock the switch in position.

**C**

Handholds  
Min. 20mm  
Max. 300mm

Minimum  
Clearance  
2.10m

Minimum  
30 x 50mm

Step 7 later steps must be made of aluminium

**COMBINATION ARRANGEMENT FOR SHIPS WITH A FREEBOARD OF MORE THAN 9 METRES**

WHEN NO SIDE DOOR AVAILABLE

**PILOT LADDER**  
Freeboard must be clearly marked

**ACCOMMODATION LADDER**  
Should lead aft

**SYSTEM BOW**

The lower part must be a minimum of 1.5 metres and all steps must be 300mm wide

Recommended to have a handhold on each side of the ladder

Accommodation ladder should be clearly marked (300mm wide)

**RIGGING FOR FREEBOARDS OF 9 METRES OR LESS**

HANDHELD SANITATIONS  
Min. 20mm  
Max. 300mm

MAIN DOORS  
Min. 1.15m  
Max. 1.80m Long

SIDE DOORS  
Min. 1.15m  
Max. 1.80m

MAIN DOORS STEPS  
Minimum 300mm

6 METRES  
Unobstructed  
above side

5th STEP  
From bottom  
must be a constant  
height  
required by rule

**NOI**

No handholds must be spaced

**NOI**

Handholds must be spaced evenly

**NOI**

The steps must be horizontal and should not be stepped

**NOI**

Staircase must not be linked between steps

**NOI**

Staircase must not be linked between steps

**NOI**

The steps should not be linked

**NOI**

Staircase must not be linked between steps

**NOI**

Staircase must not be linked between steps

**NOI**

Staircase must not be linked between steps

Pilot

Ship

Pilot Ladder

Pilot must be clearly marked

Pilot ladder must be clearly marked

Pilot ladder must be clearly marked