

Survey of Doors and Inner Doors

Object of Amendment

Guidance for the Survey and Construction of Steel Ships Part B

Reason for Amendment

Part B of the Rules for the Survey and Construction of Steel Ships specifies survey requirements for bow doors, inner doors, side shell doors and stern doors (hereinafter referred to as “doors and inner doors”) fitted on ro-ro cargo ships and car carriers based on IACS Unified Requirement (UR) Z24.

In order to clarify the application of certain requirements, the structure of the survey items relating to doors and inner doors was reviewed and reorganised.

Accordingly, relevant requirements for doors and inner doors are amended.

Outline of the Amendment

Transfer some of the survey items currently specified under general examinations for doors and inner doors to performance tests for clarification purposes.

Effective Date and application

Effective date of this amendment is 1 January 2027.

ID:DH26-04

Amended-Original Requirements Comparison Table (Survey of Doors and Inner Doors)

Amended	Original	Remarks
GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS Part B CLASS SURVEYS B3 ANNUAL SURVEYS B3.2 Annual Surveys for Hull, Equipment, Fire Extinction and Fittings B3.2.2 General Examination 5 The general examination of “bow doors, inner doors, side shell doors and stern doors (hereinafter collectively referred to as “door(s)”)” stipulated in item 21 of Table B3.2, Part B of the Rules is to confirm that the items specified (1) to (7) below are in good condition. Non-destructive testing may be required when deemed necessary by the Surveyor as a consequence of the examination specified in Table B3.2, Part B of the Rules. (1) Structural members such as plating and stiffeners, <u>hinging arms</u> and related welded parts of the door(s) (2) Structural members such as plating and stiffeners of the surrounding hull structure (3) Items (a) to (h) below for the door(s) (a) Securing, supporting and locking devices (b) Hinges, bearings and thrust bearings (c) Interlock systems for opening/closing systems and the securing and locking devices (d) Sealing arrangements	GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS Part B CLASS SURVEYS B3 ANNUAL SURVEYS B3.2 Annual Surveys for Hull, Equipment, Fire Extinction and Fittings B3.2.2 General Examination 5 The general examination of “bow doors, inner doors, side shell doors and stern doors (hereinafter collectively referred to as “door(s)”)” stipulated in item 21 of Table B3.2, Part B of the Rules is to confirm that the items specified (1) to (7) below are in good condition. Non-destructive testing may be required when deemed necessary by the Surveyor as a consequence of the examination specified in Table B3.2, Part B of the Rules. (1) Structural members such as plating and stiffeners and related welded parts of the door(s) (2) Structural members such as plating and stiffeners of the surrounding hull structure (3) Items (a) to (h) below for the door(s) (a) Securing, supporting and locking devices (b) Hinges, bearings and thrust bearings (c) Interlock systems for opening/closing systems and the securing and locking devices (d) Sealing arrangements	Clarification of the applicable scope.

Amended-Original Requirements Comparison Table (Survey of Doors and Inner Doors)

Amended	Original	Remarks
(e) Electric devices for operating (f) Drainage systems and arrangements (g) Hydraulic devices (h) Any other devices which are required for the ship in accordance with 14.10, Part 1, Part C of the Rules and Chapter 21, Part CS of the Rules (4) In addition to (3) above, clearance measurements for the hinges, bearings and thrust bearings of doors are to be carried out in cases where no dismantling is required. If the results of the function test are not satisfactory, dismantling may be required to measure clearances in cases where deemed necessary by the Surveyor. If dismantling is carried out, a visual examination of hinge pins and bearings together with non-destructive testing of the hinge pin is to be carried out. Clearance measurements of securing, supporting and locking devices are to be taken in cases where indicated in the Operating and Maintenance Manual.	(e) Electric devices for operating (f) Drainage systems and arrangements (g) Hydraulic devices (h) Any other devices which are required for the ship in accordance with 14.10, Part 1, Part C of the Rules and Chapter 21, Part CS of the Rules (4) In addition to (3) above, clearance measurements for the hinges, bearings and thrust bearings of doors are to be carried out in cases where no dismantling is required. If the results of the function test are not satisfactory, dismantling may be required to measure clearances in cases where deemed necessary by the Surveyor. If dismantling is carried out, a visual examination of hinge pins and bearings together with non-destructive testing of the hinge pin is to be carried out. Clearance measurements of securing, supporting and locking devices are to be taken in cases where indicated in the Operating and Maintenance Manual. (5) <u>Items (a) to (f) below for indication / monitoring systems, where fitted.</u> (a) <u>Visible indication and audible alarms (hereinafter referred to as “indication and alarm system”) at the navigation bridge panel and on the operating panel</u> (b) <u>Lamp test function at the navigation bridge panel and on the operating panel</u> (c) <u>Mode selecting function that allows selection between “harbour” and “sea voyage”</u> (d) <u>Power supply for the indication and alarm system</u> (e) <u>Sensor for the indication and alarm system</u>	As this is a requirement for operational testing, it has been relocated to B3.2.3, where such testing is specified.

Amended-Original Requirements Comparison Table (Survey of Doors and Inner Doors)

Amended	Original	Remarks
B3.2.3 Performance Tests 8 The survey of bow doors, inner doors, side shell doors and stern doors specified in item 11 of Table B3.3, Part B of the Rules, is to be carried out in accordance with the following (1) to (4). (1) Where draining arrangements are fitted, a test of the <u>bilge system between the inner and outer doors is to be carried out.</u> (2) Where indicating/monitoring systems are fitted, <u>visible indication and audible alarms are to be tested at the navigation bridge panel and at the operating panel.</u> (3) Where water leakage detection systems are fitted, <u>carry out a functional test in accordance with the procedures specified in the Operating and Maintenance Manual. At that time, verify that the proper audible alarms are activated on the navigation bridge panel and on the engine control room panel.</u> (4) Where television surveillance systems are fitted,	(f) <u>Any other systems which are required for the ship in accordance with 14.10, Part 1, Part C of the Rules and Chapter 21, Part CS of the Rules</u> (6) <u>Where fitted, water leakage detection systems are to be tested including the proper audible alarms on the navigation bridge panel and on the engine control room panel, according to the procedures specified in the Operating and Maintenance Manual.</u> (7) <u>Where fitted, television surveillance systems are to be tested including the proper indications on the navigation bridge monitor and on the engine control room monitor.</u> B3.2.3 Performance Tests (Newly added)	Same as above.

Amended-Original Requirements Comparison Table (Survey of Doors and Inner Doors)

Amended	Original	Remarks
<u>verify that they are currently operating properly. At that time, verify that the proper indications are displayed on the navigation bridge monitor and on the engine control room monitor.</u> B5 SPECIAL SURVEYS B5.2 Special Surveys for Hull, Equipment, Fire Extinction and Fittings B5.2.5 Close-up Surveys 2 Thickness measurements are to be carried out on <u>hinging arms and the</u> securing, supporting, locking devices of bow doors, inner doors, side shell doors and stern doors to the extent considered necessary by the Surveyor. The maximum thickness diminution of such securing, supporting and locking devices is not to be more than 15% of the as-built thickness.	B5 SPECIAL SURVEYS B5.2 Special Surveys for Hull, Equipment, Fire Extinction and Fittings B5.2.5 Close-up Surveys 2 Thickness measurements are to be carried out on <u>the</u> securing, supporting <u>and</u> locking devices of bow doors, inner doors, side shell doors and stern doors to the extent considered necessary by the Surveyor. The maximum thickness diminution of such securing, supporting and locking devices is not to be more than 15% of the as-built thickness.	Clarification of the applicable scope.
EFFECTIVE DATE AND APPLICATION		
1. The effective date of the amendments is 1 January 2027.		