

Notice No.3

Rules for the Manufacture, Testing and Certification of Materials July 2017

The status of this Rule set is amended as shown and is now to be read in conjunction with this and prior Notices. Any corrigenda included in the Notice are effective immediately.

Please note that corrigenda amends to paragraphs, Tables and Figures are not shown in their entirety.

Issue date: January 2018

Amendments to	Effective date	IACS/IMO implementation (if applicable)
Chapter 10, Section 1	1 July 2018	1 July 2018

Chapter 10

Equipment for Mooring and Anchoring

■ Section 1 Anchors

1.2 ~~Manufacture~~ Design requirements

1.2.1 All anchors are to be of an approved design. In addition, HHP and SHHP anchor designs are required to be tested in accordance with Ch 10, 1.3 Anchor holding power tests for HHP and SHHP anchors so as to confirm the holding power.

1.3 Anchor holding power tests for HHP and SHHP anchors

1.3.1 Anchor designs for which approval is sought as HHP anchors are to be tested at sea to show that they have holding powers of at least twice those of approved standard stockless anchors of the same mass. In the case of SHHP anchors, a holding power of at least four times that of an ordinary stockless anchor of same mass is to be demonstrated.

1.3.2 Full scale tests are to be carried out at sea on various types of bottom, normally, soft mud or silt, sand or gravel and hard clay or similar compounded material. The tests are to be applied to anchors of mass which are as far as possible representative of the full range of sizes proposed.

1.3.3 HHP and SHHP anchors are to be tested along with an ordinary stockless anchor to establish the holding power. They are to be of approximately the same mass and tested in association with the size of chain required for that anchor mass.

1.3.4 Where an ordinary stockless anchor is not available for testing a HHP anchor, the use of a previously approved HHP anchor may be considered. For testing SHHP anchors, a previously approved HHP or SHHP anchor may be considered.

1.3.5 The length of the cable attached to each anchor is to be such that the pull on the shank remains horizontal during the test. For this purpose a scope of 10 is considered normal but a scope of not less than 6 may be accepted. Scope is defined as the ratio of length of cable to depth of water.

1.3.6 Three tests are to be taken for each anchor and each type of bottom. The stability of the anchor and ease of breaking out are to be noted where possible. Tests are to be carried out from a tug but, alternatively, shore based tests will be specially considered. The pull is to be measured by dynamometer. Measurements of pull, based on the RPM/bollard pull curve of the tug will be considered as an alternative to a dynamometer.

1.3.7 For approval and/or acceptance for a range of HHP anchor sizes, tests are to be carried out for at least two anchor sizes. The mass of the maximum size approved is not to be more than 10 times the mass of the largest size tested.

1.3.8 For approval and/or acceptance for a range of SHHP anchor sizes, at least three anchor sizes are to be tested, indicative of the bottom, middle and top of the mass range.

1.3.9 The holding power test load is not to exceed the proof load of the anchor.

Existing sub-Sections 1.3 to 1.12 have been renumbered 1.4 to 1.13.

~~4.9~~ 1.10 Proof test of anchors

~~4.9.1~~ 1.10.1 Anchors having a mass of 75 kg or more inclusive of stock (56 kg in the case of high holding power anchors) are to be tested in the presence of the Surveyor at a proving establishment recognised by LR. A list of recognised proving establishments is published separately by LR. In addition to the requirements stated in this Chapter, attention must be given to any relevant statutory requirements of the National Authority of the country in which the ship or mobile offshore unit is to be registered.

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Published by Lloyd's Register Group Limited
Registered office (Reg. no. 08126909)
71 Fenchurch Street, London, EC3M 4BS
United Kingdom

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