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Certification of pad eyes on ships

Requirements for cargo-handling appliances in ships are stipulated in the Regulations of 17 January 1978 No. 4 on cargo-handling appliances in ships.

Guidance on the certification of pad eyes has been provided in accordance with NIS/NOR Circular No. 1/2006, also for competent persons. This Circular has been withdrawn. Thus, the purpose of this guidance Circular is to provide information on how to certify pad eyes.

As an alternative to the procedures described below, the rules of a recognised classification society may be used when certifying pad eyes.

(1) Pad eyes shall be constructed with a safety factor relative to the safe working load (SWL) specified in table 2:

<i>SWL</i>	<i>Safety factor</i>
Up to 5 tonnes	2.0
From 5 to 20 tonnes	1.75
Above 20 tonnes	1.5

Table 2

(2) The person who examines pad eyes shall have sufficient qualifications within non-destructive testing (NDT).

(3) Pad eyes shall be examined before being put into service for the first time and if weakened structure or fastening point of the pad eye is suspected.

(4) Pad eyes with SWL equal to or less than three tonnes shall be examined by:

- a) assessing the dimensioning of the pad eye; and
- b) visual inspection of the pad eye, structure and fastening point. Random NDT shall be carried out when deemed necessary.

(5) Pad eyes with SWL above three tonnes shall be examined by carrying out:

- a) load tests of all pad eyes and random NDT; or
- b) NDT of all pad eyes and random load tests.

(6) When a load test of pad eyes is being carried out, table 3 shall be complied with.

<i>SWL</i>	<i>Test weights for load-testing</i>
Up to 20 tonnes	1.25 x SWL
From 20 to 50 tonnes	5 tonnes + SWL
Above 50 tonnes	1.10 x SWL

Table 3

(7) Pad eyes shall have individual or group marking. The marking must include SWL and may e.g. consist of signs in each area with several identical pad eyes or a colour code system that separates between pad eyes with different SWL in the same area.

(8) The location, SWL and loading direction of the pad eyes shall be documented.

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