

Rudders for ID Ice Class Ships

Amended Rules

Rules for the Survey and Construction of Steel Ships Part I

Reason for Amendment

Requirements for ice class ships are specified in Part I of the Rules for the Survey and Construction of Steel Ships and these requirements are based on the Finnish-Swedish Ice Class Rules (FSICR). The Society specifies five ice classes (*IA Super*, *IA*, *IB*, *IC* and *ID*) for ships in its Rules. The first four of these ice classes are equivalent to ones specified in the FSICR; the fifth one (ice class *ID*), however, has no FSICR equivalent and is instead based on the Government of Canada's rules for ice class ships.

Since *ID* ice class ships are assumed to operate in either open water or in relatively less severe ice conditions, the strengthening of their ice belts is only required and defined for their bow regions. Even for *ID* ice class ships, however, the minimum speed and ice pressure used for the scantling calculations of rudder posts, rudder stocks, pintles, steering gear, etc. are specified. Therefore, there currently exists a discrepancy in the NK Rules between the concept of ice strengthening and the application of relevant requirements.

Accordingly, relevant requirements were amended to clarify the application of requirements for the rudders and steering gear of *ID* ice class ships.

Outline of Amendment

- (1) Amended relevant requirements to exclude *ID* ice class ships from the application of requirements for the maximum service speeds used for the scantlings of rudder posts, rudder stocks, pintles, steering gear, etc.
- (2) Amended relevant requirements to exclude *ID* ice class ships from the application of requirements which use ice pressure in local scantling calculations for rudders.

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part I: 8.4.3, Table I8.13