

The Hull Structures of Ice Class Ships

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part I
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Reason for Amendment

The Finnish-Swedish Ice Class Rules (FSICR) have been introduced into the Rules for the Survey and Construction of Steel Ships Part I, as hull structural requirements for ice class ships which are intended for navigation in waters which are ice-covered during winter such as the Northern Baltic.

With regard to the FSICR, the Finnish Transport Safety Agency (formerly the Finnish Maritime Administration) and the Swedish Maritime Administration amended the requirements for hull structures and equipment for ice class ships and released these amendments as FSICR 2010. Moreover, the “Guidelines for the Application of the Finnish-Swedish Ice Class Rules” were amended too.

Accordingly, relevant requirements of the Rules were amended in accordance with FSICR 2010 and the above Guideline.

Outline of Amendment

- (1) Terms of hull areas were amended.
- (2) Requirements for design ice pressures were amended.
- (3) Definitions of the frame span and frame spacing were amended.
- (4) Extension of the ice belt and extension of the ice strengthening of framing were amended to extend downward.
- (5) Prescriptive requirements for the shell plating for longitudinal framing, transverse frames, longitudinal frames, ice stringers and web frames were amended in accordance with the amendment of design pressures.
- (6) Requirements for stems, sterns, arrangements for towing, bilge keels, rudders and steering arrangements were amended.
- (7) Requirements regarding navigation safety precautions were amended.