

The Approval of Welding Procedures for Aluminium Alloys

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Part M
Guidance for the Survey and Construction of Steel Ships Part M

Reason for Amendment

IACS Unified Requirements W25 for aluminium alloys used for hull construction and marine structure was revised based on ASTM B928, and adopted as the Unified Requirements W25 (Rev.3) in May 2006.

In this connection, IACS reviewed Recommendation No.70, which provides the guidelines for the welding procedure qualification tests of aluminium alloys for hull construction and marine structures, and adopted the revised Recommendation No.70 (Rev.1).

Accordingly, all relevant requirements have been amended based on IACS Recommendation No.70 (Rev.1).

Outline of Amendment

- (1) To add requirements for aluminium alloys 5383, 5059 and 5456
- (2) To amend the formula for calculating maximum bending radius at qualification tests
- (3) To clarify the requirements of post-weld heat treatments and ageing with respect to actual welding work
- (4) To amend the range approval of butt welding procedures
- (5) To clarify the criteria related to the non-destructive inspections of welded parts at qualification tests