

(2) ASTM A 216/A 216M-08, Standard Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service, (approved November 1, 2008), IBR approved for § 160.132-7 (“ASTM A 216”).

(c) International Maritime Organization (IMO) Publications Section, 4 Albert Embankment, London SE1 7SR, United Kingdom, +44 (0)20 7735 7611, <http://www.imo.org/>.

(1) IMO Resolution A.760(18), Symbols Related to Life-Saving Appliances and Arrangements, (adopted November 4, 1993), IBR approved for § 160.132-19 (“IMO Res. A.760(18)”).

(2) International Life-Saving Appliances, including LSA Code, 2010 Edition, (2010), pages 7-71 (“IMO LSA Code”), IBR approved for §§ 160.132-3 and 160.132-7.

(3) Life-Saving Appliances, including LSA Code, 2010 Edition, (2010), Revised recommendation on testing of live-saving appliances, pages 79-254 (“IMO Revised recommendation on testing”), IBR approved for §§ 160.132-7, 160.132-13, and 160.132-15.

(4) MSC/Circular 980, Standardized Life-Saving Appliance Evaluation and Test Report Forms, (February 13, 2001), IBR approved for § 160.132-13 (“IMO MSC Circ. 980”).

(5) MSC.1/Circular 1205, Guidelines for Developing Operation and Maintenance Manuals for Lifeboat Systems, (May 26, 2006), IBR approved for § 160.132-21 (“IMO MSC.1 Circ. 1205”).

[USCG-2010-0048, 76 FR 62979, Oct. 11, 2011, as amended by USCG-2013-0671, 78 FR 60159, Sept. 30, 2013]

**§ 160.132-7 Design, construction, and performance of davits.**

(a) To seek Coast Guard approval of a davit, a manufacturer must comply with, and each davit must meet, the requirements of following—

(1) IMO LSA Code chapter I/1.2.2 and Chapter VI/6.1 (incorporated by reference, see § 160.132-5 of this subpart) applicable to the design and intended service of the davit;

(2) IMO Revised recommendation on testing, part 1/8.1 (incorporated by reference, see § 160.132-5 of this subpart) applicable to the design and intended service of the davit;

(3) 46 CFR part 159; and

(4) This subpart.

(b) Each davit must meet the following requirements—

(1) *Materials.* Each major structural component of each davit must be constructed of steel. Other materials may be used if accepted by the Commandant as equivalent or superior—

(i) Structural steel made by the open-hearth or electric furnace process must be in accordance with ASTM A 36 (incorporated by reference, see § 160.132-5 of this subpart);

(ii) Steel castings not intended for fusion welding must be in accordance with ASTM A 36, Grades U-60-30, 60-30, 65-30, 65-35, and 70-36;

(iii) Steel castings intended to be fabricated by fusion welding must be in accordance with ASTM A 216 (incorporated by reference, see § 160.132-5 of this subpart), Grades WCA and WCB;

(iv) Cast iron must not be used in the construction of a davit; and

(v) Metals in contact with each other must be either galvanically compatible or insulated with suitable non-porous materials. Provisions must also be made to prevent loosening or tightening resulting from differences of thermal expansion, freezing, buckling of parts, galvanic corrosion, or other incompatibilities;

(2) *Bearings.* (i) Bearings must be of non-ferrous metal, or must be of the roller or ball-bearing type;

(ii) Positive means of lubrication must be provided; and

(iii) The manufacturer must furnish a lubrication chart for each davit together with a plate attached to the davit indicating the lubricants recommended for extremes in temperature;

(3) *Guards.* All moving parts must have guards;

(4) *Welding.* Welding must be performed by welders certified by the Commandant, a classification society recognized by the Commandant in accordance with 46 CFR 8.220, the U.S. Navy, or the national body where the davit is constructed or the national body’s designated recognized organization. Only electrodes intended for use with the material being welded may be used. All welds must be checked using appropriate non-destructive tests; and

**§ 160.132-9**

**46 CFR Ch. I (10-1-13 Edition)**

(5) *Hydraulic systems*, if installed, must be in accordance with 46 CFR part 58, subpart 58.30.

(c) Determinations of equivalence of design, construction, and materials will be made by the Commandant only.

**§ 160.132-9 Preapproval review.**

(a) Except as provided in paragraph (c) of this section, the Commandant must conduct the preapproval review required by this section, in accordance with 46 CFR 159.005-5.

(b) *Manufacturer requirements.* To seek Coast Guard approval of a davit, the manufacturer must submit an application to the Commandant meeting the requirements of 46 CFR 159.005-5 for preapproval review. To meet the requirements of 46 CFR 159.005-5(a)(2), the manufacturer must submit in triplicate—

(1) A list of drawings, specifications, manuals, and any other documentation submitted, with each document identified by number, title, revision issue, and date;

(2) General arrangement and assembly drawings, including principal dimensions;

(3) Stress calculations for all load carrying parts;

(4) An operation, maintenance, and training manual as described in §§ 160.132-19 and 160.132-21 of this subpart;

(5) A description of the quality control procedures and recordkeeping that will apply to the production of the davit, which must include, but is not limited to—

(i) The system for checking material certifications received from suppliers;

(ii) The method for controlling the inventory of materials;

(iii) The method for checking quality of fabrication and joints, including welding inspection procedures; and

(iv) The inspection checklists used during various stages of fabrication to assure that the approved release mechanism complies with the approved plans and the requirements of this subpart;

(6) Any other drawing(s) necessary to show that the davit complies with the requirements of this subpart;

(7) The location or address of all manufacturing sites, including the

name and address of any subcontractors, where the davit will be constructed; and

(8) The name of the independent laboratory that will perform the duties prescribed in § 160.132-15 of this subpart.

(c) At the request of the manufacturer and discretion of the Commandant, an independent laboratory may conduct preapproval review required by this section; so long as the preapproval review is conducted in accordance with the procedures agreed upon between the independent laboratory and Commandant under 46 CFR subpart 159.010.

(d) *Plan quality.* All plans and specifications submitted to the Commandant under this section must—

(1) Be provided in English, including all notes, inscriptions, and designations for configuration control;

(2) Address each of the applicable items in paragraph (b) of this section in sufficient detail to show that the davit meets the construction requirements of this subpart;

(3) Accurately depict the proposed davit;

(4) Be internally consistent;

(5) Be legible; and

(6) If reviewed by an independent laboratory under paragraph (c) of this section, include the independent laboratory's attestation that the plans meet the quality requirements of this section.

(e) *Alternatives.* Alternatives in materials, parts, or construction, and each item replaced by an alternative, must be clearly indicated as such in the plans and specifications submitted to the Commandant under this section.

(f) *Coast Guard review.* If the plans or specifications do not comply with the requirements of this section, Coast Guard review may be suspended, and the applicant notified accordingly.

**§ 160.132-11 [Reserved]**

**§ 160.132-13 Approval inspections and tests for prototype davits.**

(a) If the manufacturer is notified that the information submitted in accordance with § 160.132-9 of this subpart is satisfactory to the Commandant, the manufacturer may proceed with fabrication of the prototype davit, and the