



Standard Specification for Chocks, Ship Mooring, Cast Steel¹

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1. Scope

1.1 This specification covers the principal dimensions and materials of closed chocks for installation on ships used for mooring.

1.2 Chocks can be used with either wire rope or fiber and synthetic ropes.

1.3 Chocks are for mounting directly on a deck, seat (foundation), or for mounting in a bulwark.

1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

2. Referenced Documents

2.1 *ASTM Standards*:²

A27/A27M Specification for Steel Castings, Carbon, for General Application

2.2 *ANSI Standard*:

B 46.1 Surface Texture³

3. Terminology

3.1 *Definitions of Terms Specific to This Standard*:

3.1.1 *bulwark*—a structural enclosure along the edge of the ship to serve as a rail.

3.1.2 *closed chock*—a metal flared ring-like fitting mounted on a ship, through which mooring lines pass to moor a ship.

3.1.3 *mooring ring or pipe*—a chock mounted in the bulwark and conforming to Type II and IV.

3.1.4 *rope contact area*—that part of the fitting in contact with the mooring line in normal mooring operations.

4. Classification

4.1 The size of the chocks will be identified by the nominal size “L” and “H” of the opening as shown in Table 1 and Table 2.

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.01 on Structures.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

4.2 Chocks are furnished in types as follows:

4.2.1 *Type I*—Deck mounted as shown in Fig. 1 and conforming to all dimensions in Table 1.

4.2.2 *Type II*—Bulwark mounted as shown in Fig. 2 and conforming to all dimensions in Table 2.

4.2.3 *Type III*—Deck mounted, conforming only to dimensions “L” and “H” of Table 1 and is of adequate strength to at least meet 7.2 requirement and the requirements of Sections 6 to 10.

4.2.4 *Type IV*—Bulwark mounted, conforming only to dimensions “L” and “H” of Table 2 and is of adequate strength to at least meet 7.2 requirement and the requirements of Sections 6 to 10.

4.3 Chocks shall be furnished in either of the following grades:

4.3.1 *Grade 1*—Surface finish shall be in the as cast condition.

4.3.2 *Grade 2*—Surface finish in way of rope contact shall be in accordance with 8.2.

5. Ordering Information

5.1 Orders for chocks under this specification shall include this standard, date, and the following:

5.1.1 Descriptive information (size, material, etc.) of mooring lines,

5.1.2 Quantity (number) of chocks required,

5.1.3 Size (opening, $L \times H$),

5.1.4 Type and grade,

5.1.5 Primer and coating, if any (see 8.3), and

5.1.6 Marking.

6. Materials and Manufacture

6.1 Material shall be cast steel in accordance with Specification A27/A27M, Grade 60-30.

6.2 For Types III and IV the manufacturer shall certify that strength of the chock will at least meet 7.2 requirement, and that it is suitable for the mooring lines specified in the ordering information.

6.3 Casting shall be smooth, fine grain, and free of cracks, hot tears, and blow holes, detrimental to end use. Defects having an area larger than 25 by 25 mm² and a depth of more than 10 % of the thickness in way thereof will be cause for rejection. Smaller defects in way of rope contact shall be